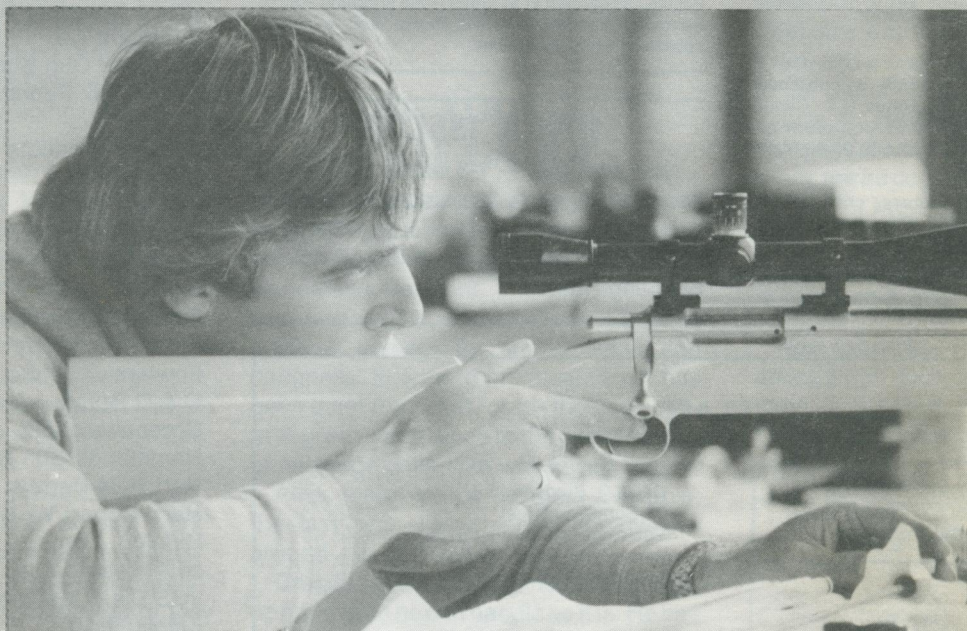


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SHOOTING

a magazine for shooters by shooters



Rick Mears, of Bakersfield, California
Competitor; benchrest matches, auto races.

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Business Offices
5735 Sherwood Forest Drive Akron, Ohio 44319
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Editor — David D. Brennan
President — Myles Hollister
Vice-President — Dermot C. Reilly
Treasurer — Stella Buchtel
Corp. Clerk — Allie Euber

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COVER PHOTO

RICK MEARS, who set an all-time Indy Car speed record of 233.934 MPH at Michigan International Speedway in 1986 ... and who relaxes at benchrest matches. Or ... is it the other way around.

Photos courtesy of Joe Valentine, of Venice, California.

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PS STAFF

HONORARY EDITOR
DR. ALONZO H. GARCELON
1913 — 1985

YE OLDE EDITOR

David D. Brennan
37 Burnham Street
East Hartford, Conn. 06108
(home) 203-289-8775
(work) 203-643-1157

COLUMNISTS:

Technical Editor:

M. H. Walker
404 Sycamore Square
Lady Lake, Florida 32659
904-753-4254

Benchrest - Feature

Lt. Col. Rick Hornbeck
R.D. 2, Box 220
Pine Bush, N.Y. 12566
914-744-3978

The Great Gunsmith

Seely Masker
261 Washington Av.
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914-769-2627

In House Gunsmith

Fred Sinclair
1200 Asbury Drive
New Haven, Indiana 46774
219-493-1858

Wildcats in Legend and Folklore

Speedy Gonzalez
1191 A So. Loop
Stephenville, Texas 76401
817-965-7941

Ballistics and Philosophy

Jon Leu
860 U.S. Victory
Highway 30 East, #10
New Haven, Indiana 46774
219-749-9810

Deputy Editor for Southwest

Robert Pease
P.O. Box 787
New Braunfels, Texas 78130
512-625-1342

Official Gunsmith on the San Andreas Fault

Geo. M. Fullmer
2499 Mavis Street
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SUBSCRIPTION NOTICES

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BOB FINNEY

Dear Dave

The other day my shooting partner came by for a visit, and presented me with a new "Rod Guide", a device that is advertised monthly in PS pages. We examined the tool, and pronounced it "first class" in every respect.

Having just finished a 6PPC chambering for my partner's rifle, I decided to check out my new tool. Since it was stainless steel construction I thought that it might be best to check the neck diameter of the tool, to make sure that it would fit my new 6PPC chamber (.262 neck) before ramming hard objects into my nice new chamber. I promptly found that the rod guide was too big (.265 to be exact).

In the process of swaging the neck diameter down, I ruined the entire neck portion of the tool. Having destroyed the sealing integrity of the tool. I had to sit down for a moment and think things out. (Editor: this is a mistake that many benchrest people are guilty of. You will get much further in life if you do not sit down to "think things out", but rather rush about wildly, cursing and waving your arms in the air. People who think things out are the type that start wars and kick stray dogs.)

Then it hit me . . . a .240 Coyote #2 formed case was sitting on my work bench. After some preliminary measurements, a cut was made about 3/4" down on the body of the case from the top of the neck. After de-burring it was a perfect force-fit onto the rod guide shaft. This new set up enabled me to use this tool on the .240 Coyote #2, 6PPC and 6BR with the added protection of a brass tip.

A further refinement was made to the rear of the rod guide shaft. The rod shaft is out of square making it difficult to start a

full size 6MM patch. I cut a 60 degree chamfer in the end of the rod guide shaft. Next, I turned a piece of 7075 T-6 aluminum 3/4" x 1/4" long. Knurled the outside. Drilled a 3/8" hole through, then cut a 60 degree bevel in the end. Drill and tap the body for an 8x36 set screw. Install on the rear of the rod guide shaft until the bevels meet. Tighten the T screw. You now are able to start a full size 6MM patch with ease, and it looks good too.

Thought that you readers might be interested in these simple modifications to an already fine product.

Bob Finney
230 Sabyan
San Antonio, Texas 78218

THE AUDETTE CASE GAUGE

There have been several articles in our pages in the past few years about the case gauge of Creighton Audette of Springfield, Vermont. The item has many who swear by it; some believe it to have mystical powers for curing warts and hangnails. In a more practical vein it has been quiet the ticket for those who attach great importance to the concentricity of cartridge case side walls.

Alas, there will be no more available; the last one was shipped somewhere around July of 1986.

Creighton has more gunsmithing work on hand than he can handle as it is. He has just signed a contract with a leading publisher of firearms books to author a book on gunsmithing, and a lot of hours are being spent each month pounding the bejabbers out of a word processor.

We mourn the passing of the Audette case gauge . . . but it will probably be a helluva book.

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The Editor

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A TALE OF TWO SEVENTEENS

by Richard E. (Dickens) Cundiff

or

THE SEVENTEEN CALIBER: IN RETROSPECT

One day back in 1959 while browsing through the old Christy Gun Works in Sacramento, California, I ran across a copy of P. O. Ackley's first spiral bound Handbook for Shooters and Reloaders that had been published the year before. After reading the little gem from cover to cover, I became fascinated with the section dealing with the sub-calibers. From that day on, I have been working with .17 calibers in one form or another.

Being something of a single shot nut, I decided to use a B.S.A. Martini Cadet Action for my first .17 caliber rifle. There were a lot of the little actions around in those days and one could buy one in mint condition for about ten bucks. I chose the .17 Ackley Bee Cartridge for the project as it suited the little Martini action perfectly and the cases were easy to make, just two forming dies and fireforming.

I sent the action to The Ackley Gun Company in 1962 and had them fit and chamber it with an experimental 8 groove barrel. I then stocked it with a Fajen AAA Grade American walnut stock and topped it off with a 20x Litschert target scope.

In order to try and reduce excess barrel fouling, so prevalent in the .17 caliber, P. O. Ackley did a lot of experimenting with barrels having various numbers of

grooves and twist rates. I don't believe any of these tests proved conducive and 6 groove rifling with a twist rate of one turn in ten inches is considered to be standard in the .17 caliber today.

According to the excellent article by Ackley in Handloader #3, September-October 1966, Mr. Charles O'Neil of O.K.H. fame came up with the idea of using a .172 diameter bullet sometime in 1943. However, nothing more was done with it until after the Second World War when Ackley, C. S. Landis and a few others began to make guns and ammo for this caliber bullet. One of the first cases used was the .30 Carbine and later on the Bee, Hornet, R-2 Lovell and other small rimmed cases were tried. These were used in single shot actions because there were no practical bolt actions being made at that time for the small rimless cartridges. In passing, two other excellent books on these early .17 caliber wildcats were "Twenty-Two Caliber Varmint Rifles" and "Woodchucks And Woodchuck Rifles" by C. S. Landis, first published in 1947 and 1951, respectively. By the way, Mr. Wolfe, these may be two good books to consider for republication.

In those early days, .17 caliber barrels were more expensive than other calibers

due to the fact that the few barrel makers, mainly P. O. Ackley and A & M Rifle Co., were only getting one good one out of every three or four because of poor tooling and manufacture techniques. With only a .168 bore and .172 grooves, those drills and reamers were awfully small. Even today, Bill Atkinson will not make .17 caliber barrels because of the high attrition rate of these very small tools. The other modern day barrel makers such as Ackley, Douglas, Shilen, and Bob Sherer of Matco are making .17 caliber barrels that are the "State of the Art" and as good as any .22 caliber ever made.

Bullets that were available in the early 1960s were made by R. B. Sisk, Barnes, Ted Smith of S.A.S., Ted Holmes and the Walker Machine Co. of Louisville, Kentucky. The Walker bullets shot very well and I still have a few of them left today. The Walker Machine Tool Co. did a lot of work with the sub-calibers including the .14 caliber. As far as I know, they are no longer in business.

When Hornady and Remington started making .17 caliber bullets, the projectile problem was solved. These bullets are also "State of the Art" and are extremely accurate in all of the rifles I have built in the last 20 years.

Even with all of the modern technology in the firearms business, we still have barrel fouling. This is probably the major reason the .17 caliber is not very popular these days especially with the larger capacity cases. My own experience with this small bore has been that any time you try to burn 20-30 grains of medium burning powder in that tiny hole you are going to get fouling. I have read articles by Les Bowman, Jim Carmichel, Roger Barlow and others who have stated that this problem only occurs in certain barrels. With velocities between 3500-4000 FPS and that much powder and regardless of how smooth the barrel is, in my own opinion you will still get excessive fouling.

In the early days when bullets started to keyhole and vaporize between muzzle and target and groups went from 3/4" to 4", you had to get out the Hoppes and find something small enough to get in that little hole and clean the hell out of the bore. My first cleaning rod was a piece of 1/8" welding rod with a jag turned on one end and a file handle on the other. Not until the

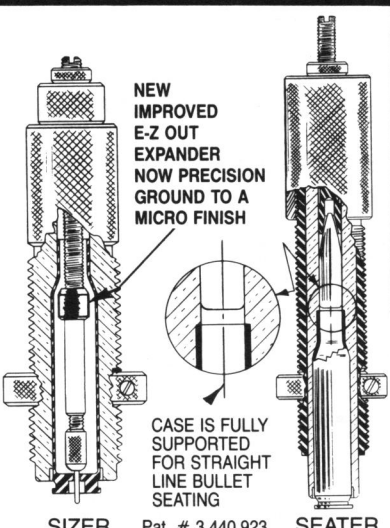
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late 60's and early 70's did we have "store bought" brushes, patches and cleaning rods.

To quote from P. O. Ackley's Handbook for Shooters and Reloaders on the .17 Bee, "The capacity of this small case is almost ideal for the .17 bore and can be loaded very easily by simply pouring each case full of 4198 powder and scraping it off even with mouth of the case and then seating the bullet to create a compressed charge which is approximately 14 grains of 4198 for a velocity of 3535 FPS." This load was usually too hot in the guns that I made up. A load of 13 grains worked

much better and there did not seem to be much loss in velocity or killing power and accuracy was better.

Other powders that were used in those early days in the .17 Ackley Bee were 2400, 4227 and, later on, Reloader 7. The 2400 and 4227 powders were a little too fast and developed excessive pressures before you could get decent velocities and groups.

Reloader 7, being a double base powder, worked very well at about 12.5 - 13.5 grains and was very clean burning but was also very critical in the top loads. A variation of .2 - .5 of a grain can make a big difference in small capacity cases.

In two or three years of building, loading, and shooting several other .17 Ackley Bee Martinis, I gained a considerable amount of knowledge about the .17 caliber. After using various makes of bullets available at that time, with Ackley 3 and 6 groove barrels, I decided to build a bolt-action rifle using a little larger capacity case. From a lot of research and correspondence I came up with what I considered to be the ideal combination. Starting with a Sako L-461 Action I had Stan Hansen, who at that time was the gunsmith for Simms Hardware in Sacramento, California, fit an Ackley 6 groove medium heavy barrel and chamber it for the .17 Javelina. The reason I had Stan do this work for me was that he had the reamers and was a damn good "Pipe Fitter". The last time I heard, he was somewhere in Colorado.

I stocked this rifle with a very unique piece of Myrtle wood with a big, broad,

black stripe running down both sides, that I got from Roberts Wood Products in Marysville, California. I topped it off with a Lyman 10X All American scope in Sako mounts.

The .17 Javelina was a development of Bill Atkinson and Paul Marquart, formerly of the A & M Rifle Co. of Prescott, Arizona. This case was made from .222 Remington brass that was run through two forming dies, shortened .250 of an inch, inside neck reamed and fireformed to give a case with minimum body taper and 30 degree shoulder and held around 20 grains of powder.

After having built several other .17 Javelina rifles, I have concluded that it is the ideal case for the .17 caliber bullet. I would not recommend this case for the novice handloader, however, as cases are somewhat difficult to make. Too bad Remington did not adopt a case of this size in their .17 caliber development but their marketing staff probably figured that 4000 FPS would sell more guns and ammo than 3800 FPS. As P. O. Ackley once said, "The belt on a Magnum case is just a marketing gimmick."

I owned one of the early Remington 700 BD1s' in .17 Remington and had very poor results with it. Even with handloads around 3600 - 3800 FPS, I would get excessive barrel fouling and would have to clean the barrel after every 15 - 20 rounds due to the badly overbore case. I know there are some of you that will argue the point and you can have your say after I'm through!

Continued on next page

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A TALE OF TWO SEVENTEENS

Continued

In loading for the .17 Javelina, A & M recommended 18.5 grains of 3031 with a 22 or 25 grain bullet for around 3800 FPS. This load, like so many other so called "pet loads", was too hot in the guns I made up and 1 - 2 grains less usually worked better. Also 4198 worked well in this excellent little cartridge but 4895 being smaller in grain size worked much better for me.

I had some very bad experiences with the early surplus ball powders, namely H-375, in the .17 Javelina. Being somewhat less erosive than extruded powders, I figured the expensive little barrel might be made to last a little longer, and H-375 seemed to have the ideal burning rate. Not so. All it did was gunk up the barrel to the point that groups at 100 yards went from 3/4" to 4" and bullets would keyhole and vaporize after only a few rounds. Apparently the culprit here was an additive used in some of these surplus ball powders as a stabilizer to keep the granules from breaking up. I have also had very poor luck with one of the first Winchester-Western Ball Powders, 295 HP, in the .357 Magnum but that's another story.

A few years ago, Robert Hutton of Guns and Ammo Magazine wrote an article on this "gunking" problem that might be very enlightening to a lot of shooters. Never shoot loads with extruded powder after shooting loads with ball powder without cleaning the barrel thoroughly first! Even today I am very skeptical about ball powders except for W-W748 which worked very well in my wife's 6 X 47

benchrest rifle, and then only after using proper cleaning methods.

Within the last 20 years there have been numerous .17 caliber developments using cases ranging in size from the .22 Hornet up to the .225 Winchester and the .22-250. None of the larger case wildcats ever worked out well and you don't see too many of them around any more. This is mainly due to the fact that the average shooter will not take the time and effort to properly clean the barrel when using one of these overbore capacity cases.

After having shot in N.B.R.S.A. Registered Benchrest Competition for the last eight years or so, I have learned a lot about keeping the equipment clean, inside and out. The best thing we have used lately, for powder and metal fouling is a product called "Shooter's Choice" available from several benchrest suppliers. Without a doubt, barrel fouling, either from powder or bullet metal is the main reason a rifle's accuracy suddenly goes sour.

My latest .17 caliber project started about three years ago when I acquired a W. W. Greener Martini Cadet Action from a local "senior citizen shooter" who had it packed away for quite some time. As you probably know, these little actions are very hard to find and this was the first one I had seen in several years. The Martini Cadet action is very strong for its size and has the fastest locktime of any centerfire action that I know of. I would not recommend any cartridge larger than the .222 size case be used, however, because the barrel threads are only .750 in diameter.

After bushing the firing pin hole to a smaller diameter by drilling out the breechlock with a #31 drill and tapping a 6 X 48 hole, I plugged the hole with a 6 X 48 sight base screw and epoxy. (What did the old time gunsmiths do without epoxy?) A hole of the proper size was then drilled through the bushing which was filed and polished flush with the breechblock. I then polished all of the working parts inside the action to eliminate all burrs and rough surfaces. I ordered a .17 caliber barrel from Douglas, who by the way, make some of the finest barrels I have ever used. The barrel specs were 1-10 twist, which is standard in this caliber, 1" at breech end and a straight taper to .750 at 20" at the muzzle. I fitted the barrel with .001 clearance between the end of barrel and the breechblock. I then chambered the barrel for the .17 Ackley Bee using a Hugh Henriksen reamer. The barrel was cut to 20" and crowned, using the standard recessed target crown. I have been doing my own metal work for about 10 years now, besides stockwork.



This is my 17 Ack. Bee Greener Martini. Douglas 1-10 brl. Calif English stock. 13.5 grs. H322, 25 gr. Hdy. or Rem bullet, 3350 FPS - 20" bbl.

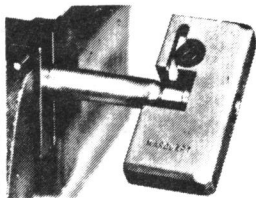
I stocked the little Martini with a blank of very nice straight grained French Walnut I was saving for a friend's Model 12 Winchester. Boy is he hot! I attached the buttstock to the action using a drawnut rather than the issue drawbolt. A 3/8" rod was threaded on both ends and one end was screwed into the rear of the action and the rod was bent upwards to achieve the proper amount of drop. The nut was made from a piece of stainless barrel steel and turned in the lathe to about 5/8" o.d., then drilled and tapped for the threads on the rod. The nut was about 2" long and added some weight in the buttstock for better balance. A .17 caliber barrel will be heavier due to the smaller hole than a .22 of the same outside dimensions. The reason for attaching the buttstock in this manner was to get a higher comb line for a higher mounted scope to facilitate loading and unloading and still retain the modern classic styling. A black presentation butt pad was attached to the buttstock and a Pete Grisel steel grip cap was installed on the pistol grip. You will notice by the photos that this stock has a very close grip compared to some other Martinis I have seen. This measurement is 3 1/2" from trigger to front of grip cap, the same as most custom stock makers use on a bolt action

Continued on page 8

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A TALE OF TWO SEVENTEENS

Continued

stock and the length of pull is 14". The overall length of the rifle is only 36". The forearm was shaped similar to that of the Ruger #1 and was attached to the barrel with a single 10-32 allen head machine screw. There is a .004 gap between the rear of the forearm and the front of the receiver. This eliminated any binding in this area and I have found it to be similar to free floating a barrel in a bolt action rifle. It also helped to minimize vertical stringing of shots when shooting from the bench.

The action lever was heated and bent to conform to the front arc of the pistol grip. The extractor needed very little work as the original .310 Rook cartridge was close in diameter to the .218 Bee. A nice crisp trigger pull of about 2½ lbs. can be gotten on these little actions by grinding back the rear of the trigger-sear engaging surface and polishing to eliminate friction and drag.

One small problem I encountered with this action was how and where to mount the scope. In the past, I have used long target-style scopes using scope blocks attached to the barrel. On others I used Weaver bases and extension rings reversed to the the regular hunting type scopes back far enough for proper eye relief, and high rings for loading and extraction clearance.

For this project I did some homework and came up with the idea of using a

Leupold one piece base intended for the factory drilled and tapped barrel on a Thompson Contender handgun. I then mounted a 2X - 7X Redfield scope in Leupold split rings.

All of the metal parts were polished by hand using various grits of emery and final polishing done with Scotch Brite. The parts were then caustic blued to a nice deep blue black color. I finished the stock using John Bivins, "Express Oil Finish" as explained in Rifle #47, September-October 1976. I haven't gotten around to checkering the stock yet. You heard the one about the shoemaker's kids? Just been shooting it and trying to put a dent in the jack rabbit population which are abundant in this part of the country, Carson City, Nevada.

Speaking of shooting and loading for my latest .17 Ackley Bee, unprimed brass is manufactured only by Winchester-Western for the .218 Bee Cartridge. To make cases for the .17 Bee, just run the .218 Bee cases into two forming dies, which are available from Huntington Die Specialties in Oroville, California. There is no neck-reaming and one shot with a fairly still load will usually fireform the case perfectly with minimum body taper and 30 degree shoulder. Being relatively easy to make, this case might appeal to some of you who would like to have a great little "Wildkitten".

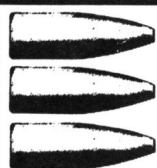
There are several sources of information on loading for the .17 caliber. Being a factory case, loads for the .17 Remington can be found in Hornady's Reloading Manual because they are the only major bullet manufacturer making bullets in this caliber and only in 25 grains. Remington also makes an excellent 25 grain hollow point, but I have never seen any factory reloading data. Other sources for the .17 caliber Wildcats are Hodgdon's Manual and of course P. O. Ackley's Handbook for Shooters and Reloaders. The Pacific Gunsight Co. before their merger with

Hornady, published an excellent reloading manual in 1968 that had a very extensive section on loading for the .17 caliber Wildcats, but it may be hard to find. Another good source was "Handloader #3" which might still be available from Wolfe Publishing Co., Prescott, Arizona.

For my first fireforming loads in this new rifle I decided on H-4198, being slightly faster and, therefore I thought, cleaner burning than Dupont 4198. I had used 12.5 grains in the past, so I loaded 50 necked down cases with this load and seated a 25 grain Hornady bullet, backed off about .005 from the lands in the barrel. These cases all formed perfectly except for a slight bulge at the pressure ring at the base of the case. I don't like to see this bulge in any chamber job I do, so I thought I would investigate the matter further. The original chamber specs from Ackley called for .350 of an inch, .200 of an inch from the base of the rim. My reamer measured .347 at this point so therefore the chamber should be tighter. The chamber was not the problem. The cartridge itself was the culprit. I guess the factories have never changed their specs from the black powder days. This same case was originally made from .32-30 and .25-20 brass.

My case measure, unfired, .343 at this point and in a case originally designed for 30,000-35,000 psi, at modern day pressures you're going to get some case expansion in the web area, .004 to be exact. I guess I can live with that! Just don't hot rod it. There is no need. One of the same old problems came up using 4198. Even with store-bought funnels those long skinny grains still won't go in that little tiny hole without some difficulty. So I went to Re-7 which is almost like fine ball powder. My first loads of Re-7 in the fireformed cases were 12.5-13.5 grains. The 12.5 grain load smoked the necks of the case and the 13.5 grain load biscuit cut the

Continued on page 10



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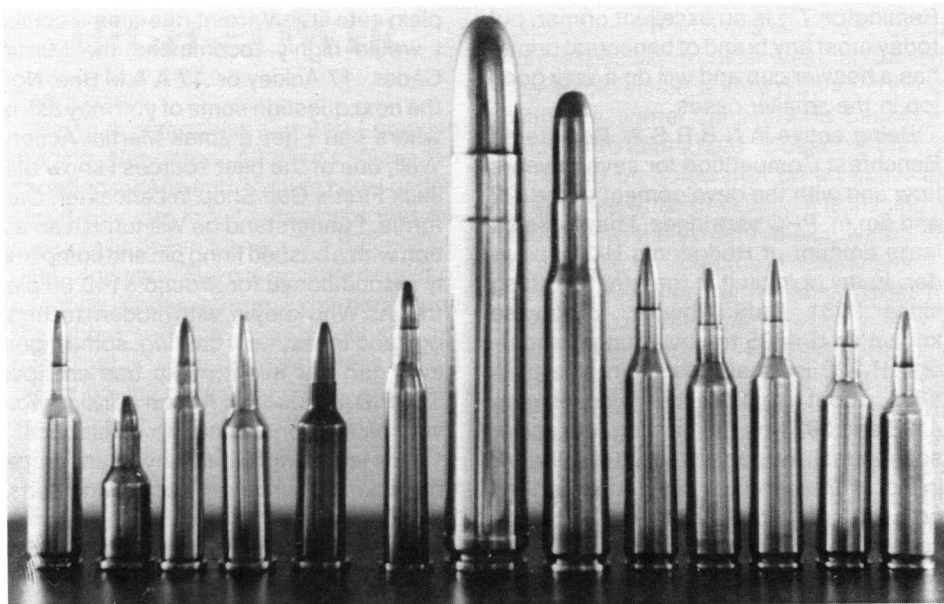
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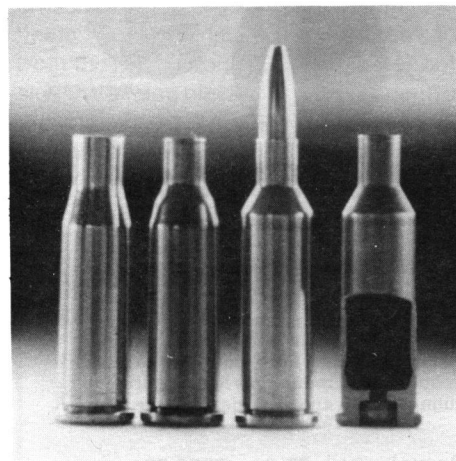
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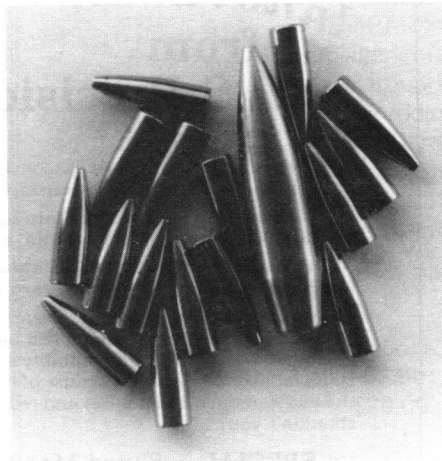
From left to right: .14-221 Walker, .17 Bumblebee, .17 Ack. Hornet, .17 Ack. Bee, .17 A&M Bee, .17 Lovell or Landis Woodsman. Thought I would give you Big Bore guys a break and show a really big one, the .510 Wells Xpress. An old .30 gvt '06 with 220, the .17 Rem., .17-222, .17 R.C.B.S., .17 Javelina and the .17-221 or Mach IV.



Yes, even the desert is getting that way!



The three stages of forming the .17 Ack. Bee. Also a sectioned case showing the very thin walls almost ready to separate. W-W brass on a larger scale this could be a .219 Don Wasp case.



The Sierra .30 cal. 168 gr. match bullet had a litter of Hornady .17 cal. 25 grains.

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A TALE OF TWO SEVENTEENS

Continued

primer so bad the action would not open easily because the primer was forced into the firing pin hole, which had been bushed and fitted for a .055 firing pin with .050 protrusion. Because the mainspring is limited in size, the firing pin will still be pushed back into the breechblock if you don't watch pressures. As I said at the beginning of this article, Re-7 is a very critical powder in the top loads. To eliminate biscuit cutting, due to very quick pressure curves in the smaller .17 and .22 caliber cartridges, several years ago Remington developed the 7½ small rifle primer using a softer and thicker metal for the cup. The

Remington 7½ is an excellent primer, but today most any brand of benchrest primer has a heavier cup and will do a very good job in the smaller cases.

Being active in N.B.R.S.A. Registered Benchrest Competition for several years now and with the development of the .22 and 6m.m. PPC cartridges, I have used a large amount of Hodgdon's H-322 powder. In my opinion it is the greatest thing since 3031 Data Powder, otherwise known as H-4895 to you younger shooters. H-322 is smaller in grain size than 4895, about like 4227, but falls between 4198 and 3031 on the burning rate scale, so thought I, let's see if this stuff will work in the .17 Bee, and boy did it! After settling on a load of 13.5 grains of H-322, which comes about halfway up the neck, and with a Remington or Hornady 25 grain bullet seated, the little Martini exceeded all my expectations. It will consistently group .500-.750 inches at 100 yards with a chronographed velocity of 3500-3550 FPS. It will kill ground squirrels and jack rabbits in their tracks out to 200 yards and recoil is about like a .22 long rifle high speed.

Several years ago while doing some research on this caliber, I read about a Game Management Warden in one of the Southwestern states who used a .17 Ackley Bee to thin out the Feral Burros which were running amuck. He killed several of these animals with one shot at various ranges. I haven't seen any Feral Burros around here but you never know. Someday

For anyone wanting an excellent, quiet, recoilless, accurate to 200 yards, and just

plain cute little Varmnt rifle-ammo combo I would highly recommend the Martini Cadet, .17 Ackley or .17 A & M Bee. Now the next question some of you may ask is, where can I get a small Martini Action? Well, one of the best sources I know of is Jack First's Gun Shop in Lancaster, California. I understand he will furnish an action with a bushed firing pin and completely reconditioned for around \$140.00 plus freight. Who knows, with modern technology and investment casting, some ingenious gun nut might make one cheaper. The F.B.W. Model K Action will also work very nicely, for around the same price.

One last thing. Some of you are probably asking yourselves about wind sensitivity. There's an old saying on the Benchrest circuit, "In the wind, the larger the sail the harder the push." A 25 grain, .17 caliber bullet has about the same sectional density as a 55 grain .22 caliber bullet, but the .17 caliber is a lot smaller in cross section.

For a lot of fun and shooting pleasure, I'll still take my little .17 Bee, although there is a Sako L-461 with a stainless Douglas barrel, chambered for the .17 Javelina, in the works, with a fiberglass stock, no less! Please forgive me P. O.

I know some of you shooters out there who feel undergunned with anything less than a .30 caliber Magnum are probably scoffing at some of the comments in this article, but that is how a lot of American people are, they like big houses, big cars, big hats, big guns and even big women. Check out the size of a computer chip sometime and just see how much work that little sucker can do!

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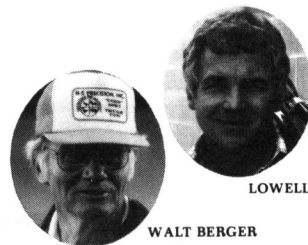
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HIGH-POWER

Dear Dave

Being a Highpower shooter, I enjoyed reading Creighton Audette's piece on shooting mirage and, though now I understand why, am in full agreement that mirage really doesn't affect the bullet's impact. However, there is another aspect of shooting under strong light conditions that most certainly does affect the impact: that is when the light shines onto a target having an aiming black, and does so from an angle. Light then washes out the area of the target that it hits the most directly (most always left or right) making the target appear smaller. For an exaggerated illustration shine a flashlight, on an angle, across a target's aiming black. In effect, as mentioned earlier, this wash-out shrinks the target; however, the main problem it causes is that a shooter is no longer able to locate true center of the bull. For example: if the sunlight is coming from the left and onto the left side of the aiming black, the "new" optical center of the bull will shift right as the sun washes out the left side of the black; this would require a sight correction left. Click your sights into the light and continue to hold true on the new optical center the light has made. That is the easiest way to cope with this problem. I have never seen light of such intensity which required more than one click (one-half MOA). And, of course, this affects all manner of iron sights regardless of design and aiming references incorporated. There is another saying which I have found true only when using the military post front sight: "Light's up — sight's up/Light's down — sight's down," meaning that one should compensate either very bright or very dull days by turning one click as the saying prescribes. This is due to the effect of "halo" on a bright day: the reflected light from the lighter colored target paper outside the aiming black washes out some of the intensity of the contrast between the two colors on the paper, causing a grey area (halo) which appears to extend the size of the bull, causing the shooter to

take a lower hold. On a very dark, cloudy day (especially in colder weather) the aiming black will be a very distinct contrast with the lighter background causing a shooter to take a hold "closer" to the bull. It should be noted that on an extremely bright day when the sunlight is shining directly onto the target (no side wash), the aiming black may actually appear *smaller*. This is because the reflection from the paper is so great that the outer edge is "whitened", that is: washed out totally. One last effect that bright sunlight can have on a shooter's performance is that of extra-bright light quickly "burning" the target's bullseye onto his eye's retina. This is called image retention. After staring intently at a well illuminated target the image of the aiming black becomes fixed onto a spot on your eye (liken it to the residual effect of a flash bulb). This image, at best, blurs and fuzzes the black's sharpness and a shooter's ability to focus on it clearly; however, at worse, this new image can actually replace the bullseye. Moving and shifting along with your eye's motion, the aiming black you see may not be the one that is actually there! Although this can happen even on a cloudy day,

provided a shooter stares long enough at the bullseye, on a very bright day it happens quickly. The best remedies I have found: shift your eye's focus one or two times prior to firing (I have the habit of double checking my rear aperture's alignment immediately prior to firing) to make sure the image of the aiming black stays clear; and, should you strain your eye to the point that image retention does become a problem, the quickest way I have found to alleviate it is by looking at green grass (should you have a stand of that at your range). It seems that the color of green has a very soothing effect and restores your vision quickly.

To say light has an effect on what the shooter sees as his target is true; however, to analyze carefully that effect and to correct for it takes some practice. (If nothing else, light is a real fine excuse!) Of course, all the above only matters to those who shoot at bullseye targets; however — it matters!

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CREIGHTON AUDETTE

Dear Dave:

Recently, I had occasion to refer to an article in the June 15, 1921 issue of "ARMS AND THE MAN", to look up some data on tests of national match and Palma match ammunition. The report on the 1000 yard matches at Williamsport brought the article to mind and I thought your readers might be interested in the groups obtained 65 years ago.

The article covered the testing of .30-06 international match ammunition made by Winchester, Remington, Peters, U.S.

Notice

RANGE:

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WHEN:

March 28th and 29th, 1987
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TIME: 9:00 A.M. on Saturdays and 8:00 A.M. on Sundays. Registration and Drawing for Benches Saturday morning.

DISTANCE: 100 yards on Saturdays and 200 yards on Sundays.

PROGRAM: Heavy Varmint Shooters in A.M. — Warm-up and 5-10 shot matches Unlimited Shooters in P.M. — Warm-up and 5-5 shot matches

ATTENTION: Draw for Benches — Varmint Rifles weighed. HAVE YOUR MEMBERSHIP CARDS READY!! (NBRSA OR IBS)

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FEES: \$15.00 per day, plus \$5.00 for 2nd gun each day.

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Cartridge Co., and Frankford Arsenal at Quantico. The "Palma" ammunition was tested in Mann rests, using barrels weighing about 7¼ pounds, attached to Springfield, 03 actions, firing ten, 10 shot targets at 1000 yards. The conditions of the test required that the firing of each, ten shot group must cover a time interval of one and one-half minutes, rather than "machine-gunning" the rounds down range. They also specified that each lot of ammunition would be fired in two different barrels, five, 10 shot groups in each barrel, and that there would be no cleaning of a barrel during its total of 50 shots.

It would seem that these conditions offer more than a fair comparison with the circumstances at Williamsport, where magnum cartridges, boattail bullets of up to 250 grains weight, 3000 to 3400 fps velocities, and 20 to 40 pound rifles offer inherent advantages and a competitor can not only fire as rapidly as possible, but alter aim according to wind and weather.

Remington won the test with a 180 grain, flat base bullet, having a cupronickel jacket (85% copper and 15% nickel), loaded to 2610 fps average velocity, using 45 grains of Hercules, Hivel #2 powder and a mercury-fulminate primer. Weather conditions were very good and the vertical measurement of most of the groups was larger than the horizontal. The verticals of the ten, ten shot groups measured 9.95", 10.00", 14.35", 10.6", 16.2", 8.6", 10.95", 18.3", 7.10" and

9.35", giving an average of 11.34"! The group with the 18.3" vertical had a horizontal measurement of 8.35". The group with the 7.10" vertical had a horizontal of 6.10". The largest horizontal measurement was 13.1". The largest mean radius was 4.82" and the mean of the ten, mean radius figures was 4.29".

It should be noted that similar, velocity variations would produce greater vertical dispersion with the flat base bullets at 2610 fps, average velocity from the .30-06, than with the boattail bullets at velocities of 3000 to perhaps 3400 fps from the magnums used at Williamsport. The 1000 yard elevation of the 1921, "Palma" load was 41 minutes of angle. That of the magnums at Williamsport is probably about 24 to 27 minutes, depending on bullet and velocity. The magnums would also have an advantage in lesser angle of descent, reducing the error occasioned by the fact that the path of the bullet through the target is not at right angles.

While the shooting of ten, 10 shot groups is not sufficient to give any meaningful lesson in probability, it is of interest that the group average of 11.34", the smallest group of 7.10" and the largest group of 18.3" are not far from what statistical probability tells us to expect.

It is of interest that the second barrel, which gave the three smallest groups of the ten, also fired the largest group. Shooters firmly convinced that cleaning every 10 or 15 shots is a necessity might also ponder the fact that two of the three

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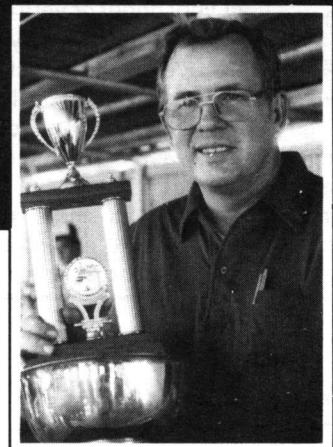
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smallest groups fired with this barrel were the 4th and 5th groups, i.e., 30 to 40 shots and 40 to 50 shots, without cleaning. Again this is a demonstration of those simple facts of probability, which many shooters find it difficult to accept: the point of impact of any bullet is random, within the probability factor; the spread of any, one group is random, within the probability factor; the location of successive groups is random within the spread which is probable for a large number of groups.

The description of the manufacture of the two lots of ammunition brought to the test by Frankford Arsenal may be of interest to those who believe that selecting cases, spinning bullets, etc. is a relatively recent innovation, discovered by modern, benchrest shooters.

"The bullets for this small lot submitted for the Palma were carefully selected by weight, by calibration, by evenness of base and by spinning. The latter process, in case it is not familiar to the rifleman, consists in putting the bullet into a "chuck", which grips its parallel and holds it perfectly true as work is held in a lathe. It is then spun on its long axis and an indicator is applied to the extreme point to see whether or not it spins truly."

"The cases were carefully gauged and were spun to see that the neck was parallel and true with the body of the case, and, finally, the finished cartridge was spun to see that the bullet point was not out of parallel. The powder was hand weighed down to the last kernel."

Shooters may also ponder the fact that the two lots of Frankford Arsenal ammunition finished in 7th and 8th place, out of the ten lots tested, despite all these tests of the various components!

"What do you know, for sure, today?"

PS INDEX

There has been a regular call over the past few years, for an index of PS articles. Your editor promptly stuck his head into the sand, and ignored the matter, primarily because he had no earthly idea how to solve the matter, and besides, he always did have trouble putting things into alphabetical order anyway.

A PS reader finally settled down with a computer, a gallon of Old Overshoe, and a free weekend (or two) and has drawn up a 14 page, 1,373 item index for the last five years of PS.

It is a masterly little piece of work, and for those who wish their lives to be orderly and arranged, and who want to be able to find a particular article without moving heaven and earth, plus twelve profanities, ten blasphemies, eight obscenities, and six maids a-milking . . . it might be just the ticket.

The price is a modest ten bucks, and the index is available directly from: John Gammuto, 5685, Forest Hill Drive, Clarendon Hills, Illinois 60514.

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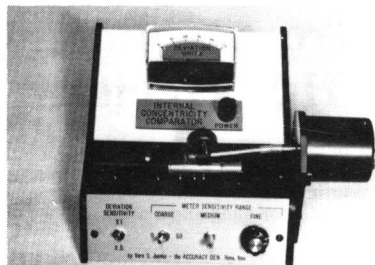
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BUFFALO HUNTERS — EARLY BENCHREST SHOOTERS?

by

Gary Sandlin

This year we held Midland's first annual "West Texas Buffalo Shoot & Rendezvous". Our shoot is dedicated to the buffalo hunters who contributed greatly to the long range shooting sports enjoyed by us today.

Let's take a short walk back in history and take a look at Buffalo hunting or "Runnin' Buff", as it was referred to during the period. Prior to 1850 the central United States was populated by a single, large migratory herd of bison estimated by various experts as approaching 100,000,000 buffalo in number. By 1850, the herd was divided into the great northern herd and the southern herd by the constant stream of east to west immigrants. During this time, the buffalo was utilized by both the Indian and white man for food, fuel, clothing, and even shelter. Not until the completion of the transcontinental railroad in 1869 was there any way of shipping buffalo hides and flesh to markets. This signaled the beginning of Buffalo hunting in earnest.

In our area, Fort Griffin, located in northeast Shackelford County, became

the chief trading center for the buffalo hunters. It attracted such men as John and J. Wright Mooar, Colonel Frank Mayer, Billy Dixon, Billy Tyler, and Lum Medlin. All of these men came to hunt the buffalo.

Colonel Frank Mayer's accounts provide us with the details of putting together a hunt and how a professional hunter conducted a hunt or "stand". Like most professionals he chose the Sharps rifles for his work. He used a 40-70 and 40-90 Sharps for general shooting. His favorite, however, was a 45-120-550 Sharps weighing 16 pounds and fitted with a 10 power riflescope with rangefinder reticles made by Vollmer of Germany. This rifle, complete with all accessories cost \$305, roughly equivalent to \$3400 today. His normal hunting company comprised a cook, three skinners, 3-4 wagons, and the necessary horses and supplies. He would normally take 1500-1600 pounds of lead and 400-500 pounds of black powder.

When he had located a herd, Mayer and his men would set up camp and the next morning, well before daylight, he would have his coffee and ride out to begin the hunt. Still well before daylight, he would ride to within 300 yards downwind of the herd and then slowly work his way to within 100 to 200 yards of the herd. When he found a good site to shoot from that afforded his horse and himself some cover, he would have his horse lie down and he

would begin to select his targets in the early light. His first target was typically an old cow, which he shot through the lungs. The cow usually kept her feet and would begin to bleed. Mayer says the other buffalo would smell the blood and begin to mill around. At this point he began to shoot as accurately and quickly as possible before the herd began to move out of range or, if he placed a shot badly, maybe even stampede. He seldom killed more than 30 buffalo per day since his skinners could handle no more. His biggest single day was 59 buffalo. After the hides were removed from the carcasses, they were staked out flesh side up to dry in the sun, stacked into bundles of ten hides each, and sold to dealers who followed the hunters in heavy freight wagons. Mayer continued hunting until 1875 when there were too many hunters and not enough buffalo.

Two other hunters from the Snyder-Big Spring area were two brothers John and J. Wright Mooar, who like Mayer hunted the southern herd in the early 1870's. The Mooar brothers were instrumental in the development of the Sharp's rifle as they kept up a correspondence with the rifle company regarding improvements as well as design deficiencies.

Buffalo hunters also made their mark as Indian fighters in the 1870's. During the height of the Buffalo hunting, a former hunter and successful merchant in Dodge

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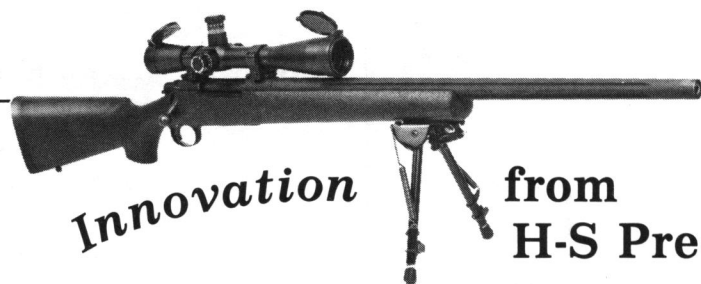
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City, Kansas opened a trading post near the original site of an adobe fort built by Bent in 1843. Located in present day Hutchinson County near the South Canadian River, the post was called Adobe Walls even though the four buildings were constructed of wood. On June 27, 1874, the trading post was attacked by an estimated 600 Indians consisting of Kiowas, Cheyennes, and Comanches. The trading post was defended by two dozen men several of whom were professional Buffalo hunters. Three of the defenders were killed by the attacking band and the Indians were decimated by the rifle fire from the post. During the fight, Billy Dixon, a professional hunter, killed one Indian on horseback at a distance later measured at 1538 yards. That is about 200 yards short of a mile.

Another interesting account was given by O. W. Williams, who with a survey party was working north and east of the present day townsite of Lubbock along the north fork of the Yellowhouse. He gives an excellent account of meeting an educated, Indian Buffalo hunter named "Muddy Wilson" and their involvement over several days together. He describes one afternoon how "Muddy Wilson" shot, "at a goodly distance", the heads from two ducks swimming in a spring at Los Aguilas. Several days later they faced a buffalo stampede and survived it by facing the oncoming herd in single file with the front man firing his rifle. After other adventures, Williams' survey party and the Buffalo hunter went their separate ways. About a month later a postmaster told Williams that a \$1500 reward was offered for the capture of "Muddy Wilson" for killing two negro soldiers in Kansas. When asked why Williams didn't bring him in he said he had two good reasons; one, that he didn't know about the reward till now and second, he had seen two ducks headshot by the man. The postmaster agreed that either reason was more than sufficient.

Modern benchrest shooters trace their sport from many threads to the past and the buffalo hunters are but one — but, an important one. Good Shooting!

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GEZA NAGY

Dear Dave,

I received your letter today (December 3rd) and was stunned to hear of Paul Olewine's passing. I knew Paul well, having shot with him at many hunter class matches in days past, as well as varmint class matches at Mainville and Council Cup. I personally lost three good friends during 1986 . . . first Nate Boop, then Woody Cahall, and finally Paul Olewine. Sure hope that 1987 is better to us than 1986 was, at least in this respect.

No real big message, no real big discovery to report with this letter. Just a few nonsensical little tales out of my shooting career . . .

About ten years ago I was weighing individually a batch of 100 new .222 Remington cases, just as they came from the factory. One case was heavier, a lot heavier, than the others. I put it aside until I got through weighing the remainder of the cases. I inspected the inside of the case under a good light, and saw a corkscrew shaped sliver of brass inside it. (Editor: good heavens! Dick Maretzo and I DID misplace a corkscrew at one of the matches right about this time. How the heck did it get into your .222 case

though?) I assume that in the process of making new cases the extractor groove is cut on a lathe, and somehow the start of the cut spiralled into the case mouth, and collected in there.

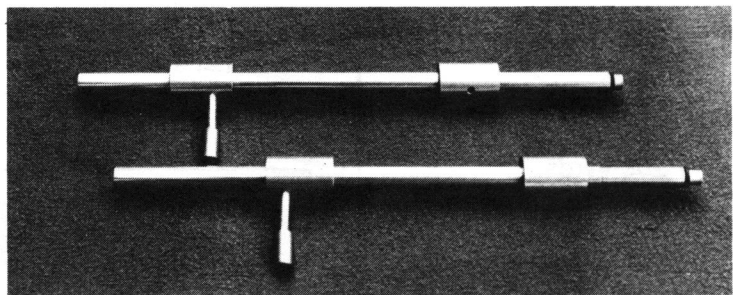
I can only speculate on what might have happened had I not found this beforehand by weighing the cases. (Editor: well, for openers, you would have had to buy Maretzo and Brennan a new corkscrew. Either that or chew a couple of corks out of bottles for us until we could get a proper replacement). If it had stayed in the bore after the first shot it could really have been a case of Katie-bar-the-door when I fired the second shot. This is only speculation of course, but I wasn't about to test and find out with a new chambered match barrel, not at a price tag such as these little rascals run currently. Certainly in this instance it didn't hurt to weigh the cases first.

Another time, about twelve years ago, I went to the Council Cup range to do a bit of 200 yard testing, and also to do some chronographing. It was going to be a day for working with the .308. I had taken various weighed charges of RL-11 powder

Continued on next page

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GEZA NAGY

Continued

along, and I had my powder measure set up at the range to throw foulers. When I fired my first shot I would have sworn that I saw the dirt kick up about 10 yards in front of me. When I fired my second fouler it sounded like a misfire. I checked, and found that the bullet had lodged in the barrel. I pulled the bullet out of another fouler case, and found no powder in it. After removing the lodged bullet from the barrel I checked my powder measure. It was full of powder, but nothing was coming out

when I worked the handle. (Editor: hey, Richard, where's our corkscrew? I put it down a few minutes ago, over by Geza's powder measure . . .). I slowly poured the powder back into the can, and in the drum of the measure was a fired large rifle primer that was copper colored. I was using Federal 210 primers, which of course are nickle colored, and this was the only brand of large rifle primers that I had used for a long time before this. I never did figure out how that fired primer got in there. The RL-11 powder cans had metal seals on the snap cap tops that had to be broken before the caps could be removed from the one pound cans. There was one other shooter at the range shooting quite a distance from me, and I'm sure that he could not have had anything to do with it. Of course I had violated one of the safety rules of handloading by not visually inspecting inside the charged cases to make certain that they looked all right.

I used to leave my powder measure attached to my loading bench at home. At one time it had gone unused for several days. Without discussing the matter with me, a spider apparently reached the conclusion that the inside of the drop tube of the measure looked like a real great place to store eggs. This time however I had learned my lesson, and after throwing a number of charges, I visually inspected the cases, and noted with interest a total lack of powder therein. That's when I found the cocoon looking pile of eggs in the drop tube. Thereafter I commenced the practice of covering the drop tube hole with a small piece of masking tape.

A similar thing happened to Tom Horenburg at the IBS Nationals this past summer. He was loading near me, and found that a live spider had crawled into his measure's drop tube between match loadings at the shoot. (Editor: equipment

changes are supposed to be reported to the rangemaster if they take place mid-match. Did Horenburg do the right thing, and report this? He certainly should have filled out a change of equipment card). Spider or not, Tom Horenburg shot well that day.

About 15 years ago we used to go woodchuck hunting in a good area of Pennsylvania for such goings on. We were shooting .22-250s at the time, and we were accustomed to verifying the zero of our rifles before we went out to hunt. On this particular day my brother Joe had brought along some cases loaded with .22 caliber Hornady S-X (Super Explosive) bullets. These bullets had very thin jackets, and it was Hornady's recommendation that they be fired at no more than .222 Remington velocities. While spotting his shots for him I saw what looked like a vapor trail to the target similar to what a tracer round in a military rifle looks like, only this one wasn't red the way they are. I saw it first with my binoculars, but later you could see it with the naked eye if you stood behind him when he shot. The full trajectory of the round showed up for a split second. Back at home, on our local range we tried it again, to show other shooters, and again it was clearly visible. It was about the color of the vapor trail of a high flying plane, but it disappeared instantly.

Another time, Walt Pereira (of CPS) and I took the day off to go shooting at a private farm in Pennsylvania. We were only interested in shooting long range. We set up some 200 yard targets on a makeshift cardboard frame to zero in on. Walt brought along some half gallon milk cartons filled with water for us to practice on. These would blow up when hit by a bullet. Walt was shooting a 7mm magnum rifle, and I had my 40X actioned light varmint

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rifle along with me. My range finder showed the distance to the target area to be slightly less than 400 yards. We used a portable loading table to shoot from. It was a bit awkward, but served its purpose. I had a spotting scope mounted on the back of the car. After zeroing our guns Walt began to shoot at the milk cartons. I was watching through my 30x spotting scope, and once again I saw the vapor trail, which I had not seen for quite a while, indeed back to the incident with brother Joe and the Hornady S-X bullets.

The vapor trail was clearly visible once it came into the view of the spotting scope. A couple of the milk cartons exploded when hit. One of them did nothing, and Walt thought that he had missed. But I disagreed; I had watched it through the spotting scope and I had seen it go through the upper left hand corner of the milk carton. This was verified when we walked down to inspect it . . . there was the bullet hole right where I said it was. The water level in that particular carton was a bit low, the bullet's path had been a bit above it, and hence no explosion. I do not recall what Walt was shooting in the 7mm magnum that day, but the bullet trail was clearly visible with the scope. We couldn't get the 6x47 to show any sign of a vapor trail that day, and neither could

we see any sign of a vapor trail with the naked eye on this occasion. Other than these two isolated instances I have never seen vapor trails. I suspect that it probably has something to do with velocity, and perhaps a certain air condition. Both days were cloudy, with no direct sunlight.

(Editor: The wildcat varmint cartridge of the 1940 1950 era, the Marcianti Blue Streak, was so named because it turned up such a vapor trail regularly one evening while being tested by its developer, Al Marcianti, of Trenton, New Jersey. Mr. Marcianti often saw the vapor trail however "in all weather conditions" as reported by C.S. Landis in his book "Twenty Two Caliber Varmint Rifles (1947 date). For those unfamiliar with this wildcat, it is based on the .22 Savage Hi-Power case, a rimmed case. The wildcat had an overall length of 2.025", and a 25 degree shoulder, which allowed for a bit of "boiler room" capacity, and 4,000 f.p.s. were reached with 3031 powder and 50 grain bullets).

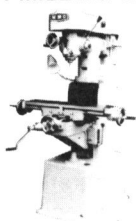
The day before Thanksgiving (1986) I went to Jackson (New Jersey) to do a bit of practice shooting. When I left my house it was a calm, overcast day, just right for testing. By the time I got there the weather had switched to windy, and pouring rain. (Editor: God was trying to tell you

something . . . go home, ya dummy). I was alone at the range (Editor . . . everyone else got the point) . . . and set up my target at 100 yards. This range is very flat, with no backstops at either 100 or 200 yards; the backstop is at 350 yards. About 1:30 in the afternoon I had just fired my fourth shot for a group, and was lining up the gun, sighting for my fifth shot, when a deer started walking along the range at the backstop. I focused my scope for that range, and watched him make his peaceful progress across, for some reason completely unimpressed by all the racket of my shooting (Editor: I can only theorize that he was not all that impressed by the way you were shooting that day, Geza). Another time, about ten years ago, I was alone at the Council Cup range in Pennsylvania, doing some 200 yard shooting with my return to battery gun. A woodchuck came walking along the 100 yard bank, and sat up, perfectly facing me . . . completely in my scope, with the bullets path I would estimate about three inches above the top of his head. (Editor: isn't that great? The little rascal obviously had a lot of confidence in your return to battery gun, Geza). Both animals were left unharmed; it seemed the right thing to do (Editor: for Pete's sake . . . you missed them both?).

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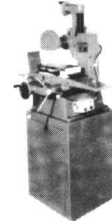
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CASE SELECTION

(A landmark article by John Gammuto, Dave Brennan, Jack Daniels, Jim Beam, and I. W. Harper. In no particular order of or contribution).

Dear Dave

After hours of reading articles, and discussing the subject with fellow shooters (many of whom lie as much as I do) I have decided to HONESTLY divulge my own "Ultimate Case Selection Procedure". I am hopeful that this article will once and for all settle the question. (Editor: what question?) If everyone adopts my procedure, at least we will all be starting the 1987 match season with the same advantage . . . the ultimate in match grade cases . . . in the hands of those shooters who were not afraid to put behind them the outdated and discredited systems of the past. If all goes well, I will, at this same time next year, go public with my "Ultimate Barrel Selection Procedure". The world is not yet ready for two major disclosures of this magnitude in the same calendar year . . . mighty forces of nature could be brought into play that could cause Texas to split off from the North American continent, and sink into the sea, in the tradition of the lost continent of Atlantis (Editor: this should be good for several dozen letters from Louisiana and Oklahoma . . . all saying "do it" . . . "go for it").

We have all heard, and indeed probably ourselves used, words such as . . . "volume . . . weight . . . concentricity . . . uniformity . . . hardness . . . crystalline structure . . . runout . . . etc., etc." I'm going to tell you something right at the start of this discussion . . . these words do not mean a thing . . . they are outdated and obsolete . . . they come from the Dark Ages of accuracy knowledge. A New Dawn is at hand. I urge you to put these words out of your mind, forget them, they will only hold you back, and confuse you. Give one hundred per cent of your confidence to the Gammuto Procedure. Put doubts from your mind. Have I ever lied to you?

Step #1) Buy 1,000 pieces of virgin brass of your chosen cartridge. Be sure that they are virgin pieces, as I said. You have every right to inspect them, case by case, right there in the store, if you harbor any suspicions that any of them may not be virgin brass. In the Gammuto system, it is not important if they are the same lot number, or even of the same manufacturer . . . these are just old wives tales that you must put behind you.

Step #2) Now that you have 1,000 pieces of brass spread all over the dealer's floor, with you sitting in the middle of the mess, (try to keep stray pieces of brass from rolling away from you . . . about the third customer to fall on his posterior on a piece of stray brass . . . usually they throw you the heck out of there . . . on the other hand this is a great way to find out if the gun shop floors are in plumb or not . . . if all the brass immediately rolls to the west wall, you know that it is not an "in plumb" gun shop). Using a magnifying glass, check each piece of brass, to make certain that it is indeed "virgin brass". There will be a lot of wise remarks from the shop's customers about "the gun checking the brass virginity on the floor". Ignore them; their kind laughed at Columbus too. You must however reject about ten percent of the brass as being "obviously not virgin brass" . . . if you are to retain any credibility with the gun shop owner, that is. From past experience, after you leave with your 1,000 selected cases . . . the shop owner and a few of his cronies will spend a couple of hours inspecting the brass that you rejected as "not virgin", trying to figure out what the heck you were talking about. Tell them nothing . . . if they go cross-eyed in the process, that's too bad . . . it's a tough world out there.

Step #3) Now, take the 1,000 cases, and sort them by color. Yes, I mean shades of yellow brass. You must try to get 100 cases that look exactly alike. The intensity of hue is very important here; indeed the cornerstone of the Gammuto System is the previously unknown factor that intensity of hue outranks every other factor. You may find that using a photographer's Grey Scale card is a big help in this. If, after careful sorting, you cannot come up with 100 similar cases, then throw them ALL away, and start at step one again. If it is necessary to do this, do not try to save the cases . . . they are inferior . . . and must be destroyed. Do not even save them for chuck shooting. In the Gammuto System, inferior things are destroyed. (Note that I have not yet determined how we will deal with inferior shooters. It is possible that they will have to be destroyed also).

Step #4) Keep buying cases until you have a hundred good ones. I suspect that the full application, without reservation, of the Gammuto System will cause incredible rises in the stock of the PPC Corporation and the Opus Corporation. A word to the wise . . . buy now . . . avoid the rush later.

Step #5) Once you have 100 color correct cases we can move on. All right, here is another revelation for our Devoted Followers that probably no one has suspected up until now. The case lubricants that we have been using for forming and sizing . . . are worthless . . . junk. Go down to your loading room, gather them up, and throw them in the trash. From here on, in the Gammuto System, we will use only the best . . . Preparation H, to be exact. Lay in a goodly supply. At the moment, you will have to buy it at your drug store, but my guess is that after this issue of PS hits distribution . . . all the major benchrest supply houses will have it stocked. I spoke to Jef Fowler today, and Jef told me that he was (and I quote him) "... gonna climb all over this breakthrough in case lubricants. I'll bet I can get the price really down there for the club or group that wants to buy in 55 gallon drum lots". Although we do not like to report on bickering or acrimony . . . we understand that Bob Pease Accuracy and Permian Shooters Supply are at each other's throats over who will get the endorsement as "official supplier of Preparation H

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to the NBRSA Nationals". Up here in the East, R.W. Hart and Son, and Bruno Shooters Supply are reportedly locked in a similar disagreement over the IBS Nationals official endorsement. We understand that Hub City, and Northern Colorado clubs have locked up the endorsement for their respective regions, but other than that, everything is up for grabs. Obviously, as preliminary negotiations wind down with the makers of Preparation H, it would be helpful to have a medical man on your team. And we understand that Dr. Maretzo is a much sought after individual these days.

Step #6) Take your 100 selected cases of virgin brass, wash them, fill them with lime Jello, and place them in the freezer for 24 hours. Extensive experimentation, ranging from 2 hours to 50 hours, definitely establishes 24 hours as the optimum figure.

Step #7) Now, wrap the cases individually in goat skin; take them to Cancun, Mexico. Soak them in Tequila for 24 hours, and then have them bake in beach sun for ten days. Do not allow them out of your sight in this period of time, otherwise they may end up as a bangle in the rear window of a Mexican taxi.

Step #8) Bring the cases home from your (possibly) tax-deductible trip. Cut all the cases to random lengths. We believe that this can be best accomplished by using a Wilson case trimmer, and hand-holding the case. This is another important discovery in the Gammuto System. If you do your case-trimming the way that the Wilson instructions tell you to . . . you may be cutting to a length that the brass itself doesn't WANT to be at! Never thought of that, did you? In the Gammuto System . . . we allow the brass itself to determine its own length . . . with the hand-holding of the case during the trimming operation. God lets rivers flow where they want to . . . right? Who do you think you are to tell brass how long it should be? Consider . . . how many pieces of brass may be in your match cases box right now . . . at a length that they don't like . . . and madder than hell at you over it? And you wonder why you have fliers?

Step #9) Stand all the random length cases on end, and grade them by overall length (tallest at one end, shortest at the other end). Select either the 50 tallest, or the 50 shortest, depending on whether you intend to fire long-jacket or short-jacket bullets.

Step #10) Take your 50 chosen cases, and ask your wife or your girl-friend (Note: do NOT ask both!) to choose the 25 "cuttest" cases. Discard the other 25 (cases, not girl-friends).

Step #11) Kiss each of them (the cases, that is), wish them luck, and throw them one at a time into a large field of your choosing.

Step #12) Wait until at least a two inch rain has fallen. Go back to the field with a metal detector, and stay there until you find 20 of the cases. Even if it takes half the night.

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MERRILL MARTIN

Dear Merrill:

I have enjoyed your articles on your work with lead bullets in recent issues of "Precision Shooting". I think I may have noticed something in the photographs in the December issue, which may have escaped you.

From the photos, it appears that the land marks on those bullets which gave poor grouping are wider than on the ones which gave good groups. If I am correct, this is exactly the experience that I had in working with black powder, .45 caliber rifles. I ran a lot of tests, catching the bullets in snow and examined them under a 20 power microscope, with a reticle graduated in .002" increments, to measure land track widths. Some of the tracks were .008" to .012" wider than the actual lands in the barrel. The good groups were those where the land tracks were very close to actual land width. In virtually every case, as near as I could measure, the track on the bullet and parallel sides, i.e., the slippage was not the triangular mark of slippage commonly seen on lead bullets fired from revolvers.

I have puzzled a lot over how this could happen and have some theories. I think it is something more complex than gas leakage. I believe it is related to bullet hardness, relative to pressures. Which the wad may help. I think it involves more than that alone. The problem also offers some insight into why the old, scheutzen shooters found that good groups were strongly related to bullet temper.

I suggest you make some measurements of the land tracks on the bullets shown in your photos and see if some of them are wider than the lands, whether the sides are parallel, and look carefully under the microscope to see if that wideness is actually caused by gas blowby. (I don't think it is.) If you do find these things, give it some long, hard thought and let me have your conclusions.

Best regards,
Creighton Audette

Dear Creighton:

That was a good observation on the land width variation.

I think it is a variation and combination of too hard an alloy not bumping up plus the space left by the slight paralleled slip and wear being eroded by gas. I've had some gas cutting so smooth it looked like machine marks.

None of this takes place on the softer bullets that upset or "bump up" into the lands and grooves with the wads controlling the gas flow. Close fit necks in fixed ammo is also a big help with lead bullets.

Black powder seems to do as much damage to the bullets as smokeless if the bullet is too hard. My rule of thumb is to have the bullet compressive hardness 1/2 that of the chamber pressure so at least the middles of the bullet will upset into the grooves. Seems to work.

Thanks for the input.
Yours truly,
Merrill

Dear Merrill:

Thanks for your letter of December 17. The question that I would have you consider, further, is "Why are the over-size, land marks parallel?" If the strength of the lead alloy were insufficient to withstand the force required to start the bullet rotating, one would expect that the slippage would leave a triangular pattern, the same as seen on revolver bullets, since the engagement with the lands is minimum at entry into the throat and increases, with bullet travel.

I have fired a great many, lead bullets, of several different calibers into snow and recovered them. My first attempts at this were in 1939. Somewhere, I have a box of them, both gas check and plain base, but cannot locate it, right now. I did find a box containing some, but it did not include gas check bullets, which the other does.

Enclosed is a plain base bullet, fired in a two groove, Springfield barrel. This is

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the typical pattern of gas cutting, from too heavy a load of fast burning powder. The bullet is the old, Lyman, #308403, the "Pope" bullet, which, as you probably know, was tapered, seated only 1/2 the rear band into the case, with the four, front lands on the bullet seated in on top of the rifling. As you can see, it upset on firing; you can see that there was some slippage, as the driving side of the lands raised a burr and the trailing side of the lands left a rather angled mark. The gas cutting, as usual, is on the trailing side of the lands and is heaviest at the base. I believe it has to be heaviest at the base, because the gas is quickly cooled by the relatively cold, surfaces of the barrel and the bullet, as it flows forward.

It is my recollection that gas check bullets, driven with too heavy a load, showed a "frosted", erosion ring, at the forward edge of the gas check, where the hot gas had expanded, after leaking by the gas check. As I recall it, the next band forward of the check exhibited the same sort of gas cutting as the base of the bullet enclosed, on a lesser scale.

While there must be gas leakage in the slight channel left when the land mark is a parallel mark, wider than the land itself, on any bullets that I have examined, this leakage seemed minimal. One would expect that such leakage would cut a channel, deeper than the land mark, at the point of leakage. At 20X, I have not been able to find evidence of such a channel. There does seem to be evidence of a slight melting of the side of the land mark, by the escaping gas.

It is difficult for me to see how gas cutting could enter into the formation of land marks that are parallel and wider than the lands. Certainly, gas cutting could not initiate the wide, parallel pattern. If gas cutting played a substantial part in the process, it seems to me there would be evidence of the typical, triangular pattern, as shown on the enclosed bullet.

If slippage started with bullet entrance into the throat, due to insufficient land contact, the pattern of the lands should be the triangular pattern of the revolver bullet.

I repeat, "Why are the oversize, land marks parallel?" "What is the mechanical action, or sequence of events, that brings this about?"

Best regards,
Creighton Audette

Dear Creighton:

I also have that Pope 308403 mold and have cast and fired many.

Studying the bullet you sent reveals the following: It's "as cast" hardness varies from 9.6 BHN at the base to 11.2 toward the nose. If it was cast softer, it would have upset and obturated the base preventing the erosion. The burr raised along side the grooves on the nose portion again point to too hard an alloy (or bullet) thus preventing upsetting to fill the rifle grooves. Yes, that little bullet will set back and fill out into the rifling grooves just perfectly if soft enough! And accuracy gets better as it does so.

The as cast variation in bullet hardness is probably the greatest problem to repeatable results. The 45 - 70 bullets with their low pressures require great care to get just the proper hardness for proper upset. Without the hardness tester you haven't got a chance. So called pure lead varies all over the place unless you buy the expensive "lab grade". Heat treating and drawing back gives the only economical control I know of.

Remember the bullet acceleration and pressure is greatest forward of the throat, thus the rotation rate increase would also be acting to widen the grooves. Further down stream the upsetting pressure is dropping and velocity increasing to put further pressure on the side of the band and it should be parallel as noted. It only widens because the bullet is too hard to upset into the space.

Just playing around I have gone softer on the bullet and kept increasing pressure until the pointed bullet set back to become a regular wad cutter. I even tried it with and without grease in the grooves. With grease, the grooves narrowed some but still held grease even though the bullet became a perfect cylinder of lead. Without grease, the grooves disappeared completely and left a perfect rifled slug of lead rather flat on the end. The barrel had to be cleaned and lubed every shot to prevent leading, but it did not lead, one at a time. Eventually I will publish those photos.

Of course some form of wad was used behind all the bullets in the above tests.

Am I helping to confuse things?

Yours truly,
Merrill

Dear Dave:

How to get instant accuracy from a regular hunting rifle, bold action (2 lug style).

Again we have Creighton Audette to thank for his encouraging research in case wall and head variation relation to groups.

Since our Feb. '85 article on case turning we have had a few odd happenings which were inconsistent with the theory that a concentric case should always help lead to shooting a tight group. During the evolution of developing our "Coors" brass we finally machined the 375-30-30 case all over including the web and rim area. Up to that time none of our .308 and .243 brass had been turned quite that close to the head thinking the main body was the most important. Our 243 and 308 groups were vastly improved but still a few out for mysterious reasons.

Recently while indicating brass we have extended our internal case support (ground down nail) all the way toward the case web radius area for measuring case run out, Nuts! With a true body cut we had .008" thickness variation at the beginning of the web radius. Thus another job of sorting brass as there was nothing that could be done at this stage for correction.

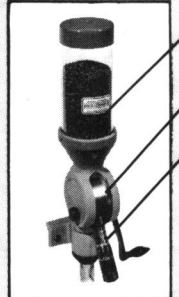
Continued on page 23



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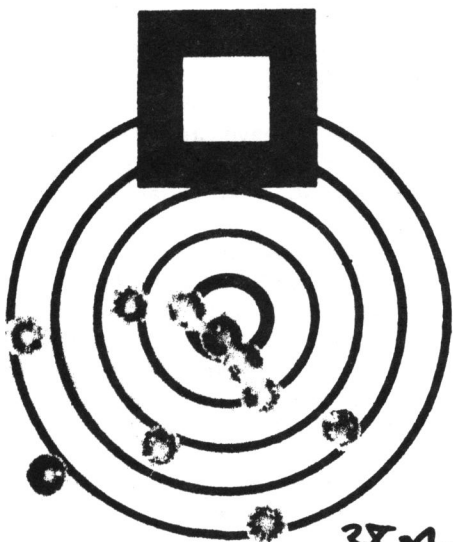
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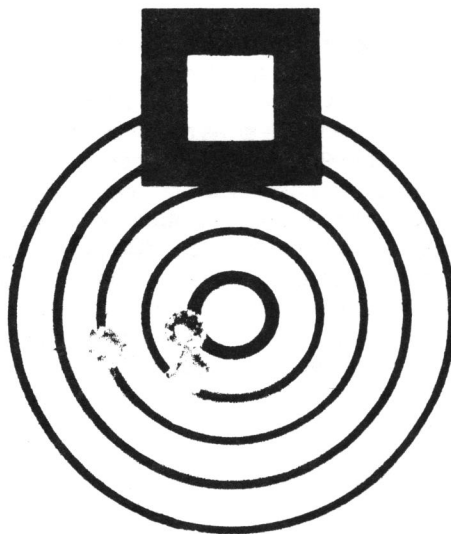
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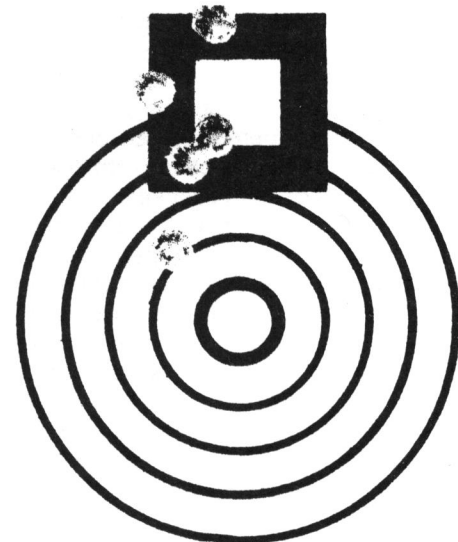


38^{gr}
748

9 o'clock - 3 o'clock
index



11-9-86
110E
Jacket Bullets
Case Wall Test
85^{gr} FB
Same



38^{gr} 748
12 o'clock
index

11-9-86
110E 243

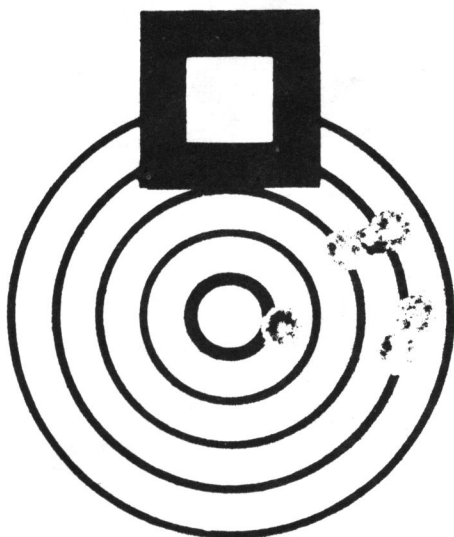
Jacketed Bullets
85^{gr} FB Same

38^{gr} 748
12 o'clock index

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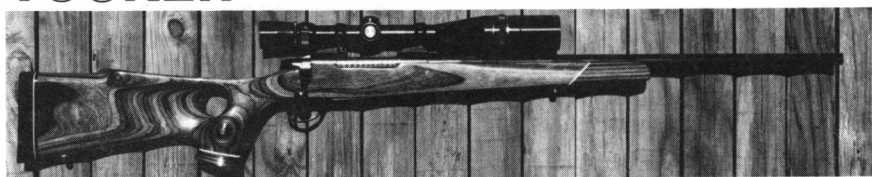
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37-748
12 o'clock
index

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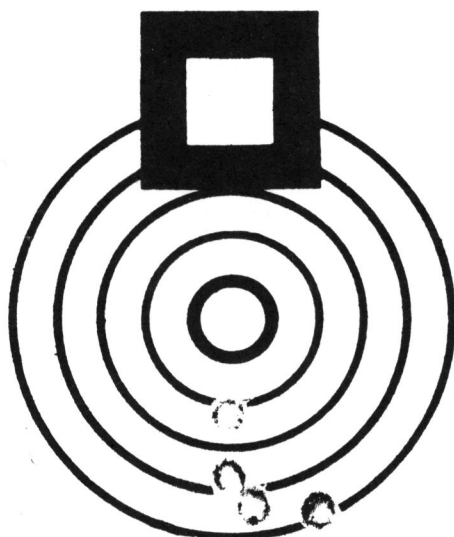
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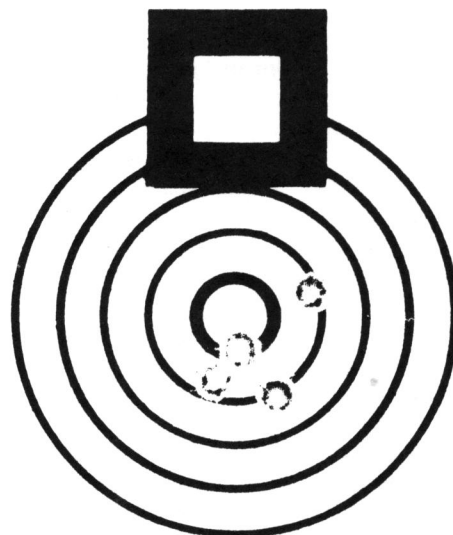
Sam Tucker, Gunsmith and Stockmaker
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11-9-86
110 E
243
Lead GC
95% MEI

24%
RE7

20 BHN
12 o'clock index



MERRILL MARTIN

Continued

Back through all the brass! Only a few were true and most ran out. Using what I learned at Coors, I proceeded to create an index point by filing a notch on the rim of each case coinciding with the thin side of the web side wall. All the brass for this test was match prepared, neck turned, trimmed, case weighed, primer depth gauged, flash hole corrected, as nearly BR brass as possible but with the index mark as noted. When loaded, the seated bullet indicated true within .001" as well as the case body and neck. But hidden inside the case was this small eccentric area just adjacent to the head web but lined up with the new index notch.

Going back to a known good load for the 243 W I proceeded to shoot a group with the index at 12 o'clock, a $\frac{3}{4}$ " group isn't too bad for the little light 110 E Savage at 100 yds. Then firing Audette style alternately 3 o'clock and 9 o'clock for each shot. We got a 2" group really spread out. Back to 12 o'clock, $\frac{3}{4}$ " again. Indexing cases to the thin side really works. We got a lot of sorting and notching to do on the rest of our so called match brass. NOTE Enclosed targets.

Yours truly,
Merrill

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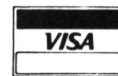
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BENCHREST SHOOTER OF THE YEAR

1987

Inequities are a lot of fun. As long as you are on the side of the line that is benefiting, that is. If you're on the other side of the line . . . the humor of the situation is a bit more difficult to appreciate . . . let alone enjoy.

As the Benchrest Shooter of the Year contest enters its fifth year . . . we have to correct an obvious inequity. (Other than the obvious inequity that no one shoots as good as the editor, of course). Each association has five designated matches (four, plus their Nationals. That's five, I think). Total of ten. Plus the Super Shoot, which is regarded as neutral (for the last year or two it has been registered with the NBRSA, but mainly for the purpose of allowing a record shot there to be recognized by **SOMEBODY**).

As formulated previously, it has been weighted too much in favor of the IBS. With about a 500 mile length or width to the IBS "territory", it was no trick at all for any semi-serious shooter in the IBS to make all five IBS designated matches. Now, factor in the fact that the Super Shoot is just a hoot and a holler over the Ohio line. Then, add the fact that the NBRSA Nationals in 1987 will be in Charlotte, North Carolina, within one days hard drive for an IBS shooter. In other words, all three of the "double point" matches are within easy distance of the IBS. Some of the better NBRSA Shooters . . . in places such as California, Utah, Arizona, Oklahoma (if I don't add Texas, they'll lynch me — again — I know they will) . . . have too many strikes going against them occasioned by the great distances that they had to travel to get to their greatly spread out designated

matches. I had to correct this. Furthermore, your brave editor got up at the IBS winter meeting, and told them what he was going to do. To my great surprise . . . they all agreed that it was "fair." This is indeed an alarming development. Has the IBS gone soft on us? No cries of "get a rope" . . . no mumblings about "the final solution" to the Brennan problem . . . no live rattlesnakes thrown up on the stage . . . no mass walkouts (will the last one out the door please turn out the lights) . . . what is the IBS coming to, anyway?

Where was I, anyway? Oh yes, back to the rules for the 1987 Benchrest Shooter of the Year contest. Here they are. . .

The IBS . . . will once again have five "designated matches" . . . their Nationals (double points), plus four others. Since their Nationals will be split this year (the three varmint classes, plus a separate heavy bench Nationals) we will regard the two of them as one match; the four gun award will be recognized by us only if the award is made by the IBS. Bob White, IBS president, picks the designated matches, with counsel and confusion provided by the editor. So much for the IBS.

The NBRSA . . . listen up, you people, I don't want to have to go through this twice (primarily because I'll never be able to duplicate what I said the first time). Your Nationals remain at double points. Two recognized and established "name matches" get a "grandfather clause" exemption to the rule changes . . . the Cactus Classic and the Crawfish Invitational remain automatic "designated matches". Now, here's where we get a bit different. Every region, with the exception of the Northeast region (which held no regis-

tered matches in 1986) will get one designated match in 1987. We want it to be a two gun, two distance match, with a two gun award made as well, and to be held no later than September 20th. Your match, if desired, can be more than a two gun, but only two classes can be "designated". And, while this may not be well received in some quarters (I'm sorry!) we will require that the "designated match" have a minimum of thirty shooters participating . . . because I'll be darned if I'm going to award "points" to a twelve shooter match. I gave the choices to Walt Berger, the NBRSA president. Knowing Walt, the judgement call will be a matter that each director will be very involved in, but I prefer to leave this up to one man, and that's the NBRSA president.

The Supershoot, a double point, designated match, will remain that way.

Finally, in keeping with the expressed opinions of a majority of shooters last year . . . we will award points for the first five places at all designated matches. To be exact . . . (and these are the points for each yardage . . . ten points for first place, five points for second, four points for third, three points for fourth, and one point for fifth. Those points will of course be doubled for the grand agg and the two gun award. And doubled again for a "double point" match.

It's a bit more complicated this year, but I believe that we will have a more meaningful, and fair, contest.

Now, all I need to find is someone with a computer, to help keep tabs on the standings, as we progress through the year. Anyone out there crazy enough to volunteer on this?

Next month we will have the IBS and the NBRSA designated match selections for you. The IBS and the NBRSA presidents have each retired to their respective think tanks to mediate on all this.



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JOHN AMBLER

Dear Dave,

Bob Pease sent along a copy of your inquiry of November 9, and also one of your letter of November 26 to Hunter Class People.

With this material in hand, I'll do my best to get you a reasonable reply.

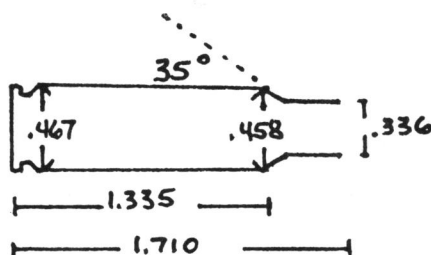
I'm still shooting the 30SP (PS July, 1984). For those who may not have that particular issue, it's a minimum capacity 30 caliber based on a shortened 308 case, 1.710" overall with 35° shoulder and .275" long neck.

About the only changes I've made since that article was written is I now use RWS 8X57 brass and Speedy Gonzalez 110 gr. bullets. Am still using 36 gr. H322, Federal or Remington 9½ primers. The reasons for the brass change are twofold: 1 - RWS brass is extremely uniform (equal to Sako PPC brass), and 2 - The 8X57 case is long enough so that when formed to the short case all pre-stressed areas of the case (body-shoulder and shoulder-neck junctions) are extruded out the end of the form die and cut off.

While on the subject of brass forming I should mention a common problem with shortened brass; it gets thick! The easiest way to combat tight cases is to push the shoulder back an extra .020" or so when forming. Then turn the neck all the way to the shoulder.

This will create excessive head space so please use caution when fire forming. I neck size so the neck outside diameter is .002" under loaded diameter and it takes excessive effort to seat the bullet. The bullets are seated out so they jam firmly into the lands when fire forming. This method gets rid of the "dreaded donut" without having to turn case necks on a lathe.

I haven't done any group shooting with the 30 since the 1984 article. I would guess that if anything, the rifle shoots better than ever. One group does come to mind. Was cleaning my loading block after



the last 200 yard match in Missoula last spring. If memory serves me correctly, Lee Andrews measured the five shots a .465. A typical group for me, 4 in and 1 out. I'm confident that this particular rifle is sub- ¼ minute.

Since 99% of my 30 experience has been with this same rifle I'll describe it. Remington 700, Hart 1-14 barrel, McMillan stock, and Weaver T6. The 1-14 twist may come as a surprise with the 110 gr. bullets but experience, not theory, has indicated to me the 1-14 is the only way to go. We had three different ones (1-14) shoot 250's at our range last summer with 110 bullets. The 1-15 and 1-16 just don't seem to be as consistent.

The seating depth which appears to work best is about .010" to .015" into the lands. This seems to get rid of most of the vertical flyers.

Speaking of vertical flyers; this is something that occurs with some regularity with the 30's. The only reasonable explanation I could suggest is the increased recoil. The heavy varmint and unlimited 308 rifles seem to bear this out.

As I mentioned before, most of my experience has been with the minimum capacity case and light bullets. I do **not** consider this to be the ultimate in accuracy. The standard 308 would appear to defy every theory regarding accurate case design i.e. short neck, large primer pocket, and 20° shoulder yet it has probably won more Hunter matches than all the other cartridges put together.

I personally don't think case shape has anything to do with accuracy. I have a Hunter class 30-06 which has already won one match and I expect it to win more. The main problem with it is the torque from the stock pushes the sand out of position in the front bag causing the rifle to cant to one side. Left unchecked, this condition gets progressively worse. A "pinch" style bag should help correct this.

Something else on the 06. Am using about ¾ case full of H322 and 125 Speedy bullets. This rifle has been fun since nothing about the caliber or how I load it is in keeping with accepted accuracy practice. The rifle was put together with care and with the same components as the 30 SP. It is a long action though, 100% legal.

I guess what I'm saying is: If the rifle and components are good, the rest is up to the jerk on the trigger. Many shooters point to the success of Larry Smart's 30 HBR and rightfully so. But if Larry built all 308's for himself and the rest of the St. Louis shooters they would still beat hell out of you. They have good equipment, but above all they're outstanding shooters.

Nuff said.

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OFFICIAL SCREAMER NEWS

The three involved parties (NBRSA, IBS, and Precision Shooting magazine) have agreed to continue the Official Screamer group patches for the year 1987.

To refresh the memory of the multitude, one qualifies for an Official Screamer patch when one fires in NBRSA or IBS competition a single group that is sufficiently small to cause a few eyes to blink on surrounding benches during competition in either association's matches. By our established criteria, eye blinking is likely to occur when the shooter has a group that measures:

- .099 or smaller at 100 yards
- .199 or smaller at 200 yards
- .399 or smaller at 300 yards
- 7.499 or smaller at 1000 yards

In addition, anyone firing a NBRSA or IBS record single group will be considered to have shot an Official Screamer group, regardless of size.

Last year the editor was a softy, and went through all match reports looking for signs of screamer groups, and the patches were sent out whether the party applied for his patch or not. In the year 1987 . . . no more nice guy editor. You want one . . . you apply for it . . . simple, huh?

To make it even more simple, we have drawn up a very simple application for you. Just fill it in (the school marm down at the county schoolhouse will help you with the big words), mail it off to the editor . . . and we'll see to it that you get what's coming to you.

NAME _____

STREET, BOX # _____

TOWN, STATE, ZIP _____

RANGE LOCATION _____

DATE _____

CLASS _____ DISTANCE _____

GROUP MEASUREMENT _____

CALIBER _____ ACTION _____

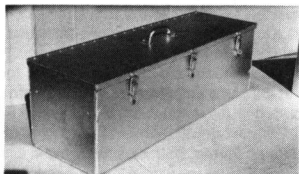
BARREL _____ SCOPE, POWER _____

LOAD _____ BULLET _____

PRIMER _____ GUNSMITH _____

STOCKER _____

Please note that we have done everything possible to keep it simple. You fill out a simple application . . . with simple information . . . you put it in a simple envelope . . . put a simple stamp on it . . . and mail it to the simple editor. What could be more simple?



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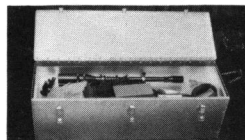
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HAROLD BROUGHTON

Dear Dave

It's been a while since you heard from me, so I thought I would get back into your good graces by dropping you a line about what I've been up to lately.

I thought that you might be interested to learn that when Remington announced the availability of 7BR brass at the NRA show, that made up my mind about things. I rechambered every one of my PPC barrels, as well as fitting some new barrels to all my bench guns. Every match that I've fired in this year has been with the BR. This new Remington brass is really great. It seems to be a lot stronger than the Sako brass. I have run 3,000 rounds through only 20 cases, and I must admit that there were a few times that I tilted that powder can pretty much up horizontal to the ground when doing my loading. Those cases were hammered but good with some of my testing loads . . . and I have not to date had to full-length resize them . . . even after 3,000 rounds. They finally wore out in the necks, where the base of the bullet rested; but the primer pockets were still tight. For my money this is the greatest benchrest round yet. (Editor: but have you tried my Opus?) By the way, my shooting this year was better than it has been in quite a while, and I credit my improvement to the BR cartridge. I managed to win the Southwest Regional light varmint 200 yard aggregate, and I believe I was third in the three gun. Dave, I do not believe that any Oposes made the top ten. (Editor: First, we do not have our chambering reamers yet. Second, I'm not sure that "Oposes" is the correct plural of Opus. It seems to me that the correct plural should be "Opusii". I think).

Continued on page 32

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INNOCENTS ABROAD — 1986

Dobbiaco, Italy and Souppes-sur-Loing, France

Bill Minneman
P.O. Box 14117
Dayton, Ohio 45414

with Skip Gordon

Photos by Bill Minneman

It had been originally hoped the U.S. contingent in Europe last September would be comparable to that of 1984, but such was not to be. The perceived political climate, combined with the severely weakened dollar, caused a lot of potential travelers to opt for a postponement, and thoughts of another group tour were put on a back burner. Johanna and I were going, but selfishly attended a family wedding in Baltimore; wouldn't you prefer such festivities to drinking fine wine, dining on outstanding food and shooting in the Dolomites with a mob of friends? Of course, you would!

The U.S. shooters were, however, represented in Italy and France by a trio of stalwarts: George Kelbly, Bill Minneman and Fletcher Williams. Following are Bill's comments:

"Fletch and I flew out of Atlanta on Delta. We were supposed to arrive in Frankfurt a couple of hours before George, but his flight was late and we had a lot of time to kill at the airport.

"After eating, Fletch decided I should go get the car. In spite of having confirmed a station wagon to George, there were none to be had. I was offered a Mercedes but insisted on a wagon, and we finally ended up with an Opel. It sort of soured Fletch; wherever we were in Germany, Austria, Switzerland or France, when he saw a Mercedes he'd announce, 'Gentlemen, look at that — that's what we could be driving'.

"George finally arrived about four hours late, and we drove straight thru to Austria where we spent the night just across the border. There's nothing quite like Austria, the scenery is magnificent and everything is so clean. The next morning we went on to Dobbiaco which is only about ten kilometers from the Austrian border in northern Italy. Prior to World War I this area was part of Austria; everyone spoke German.

"People simply could not have been treated better than we were; everything possible was done to make us feel at home. We stayed in a resort on top of a mountain; although it was quite a dis-

tance from the range the scenery, service and food made it well worthwhile.

"The range is run by volunteers from the National Guard. Tents had been set up for us to reload in, with benches and chairs. In honor of our presence flags had been painted on the target frames. In addition to the U.S. flag there were those for Ohio, South Carolina and the Confederacy, plus Arizona and Oklahoma which commemorate the visit several years ago by Red Cornelison and Neal Knox.

"The range was tough on us. At 100 yards you could see your bullet holes, but at 200 it was very difficult unless the light was right behind the target. All of us had trouble; the Italians and French didn't seem too bothered as they'd shot the range and knew the 'secret'. It was like shooting at Midland; all we could do is try to guess where the bullets were landing.

"Not surprisingly the Yanks were stomped at Dobbiaco. Only one of us made the Top 10, and I think that was a mistake!"

The only results available are for the aggs., which is probably just as well if one

considers the sensitivities of Bill, Fletch and George.

100 Meters

1. Toni Negri (Italy)	.2447
2. - Pizzoli (Italy)	.2483
3. Jean-Claude Braconi (France)	.2748
4. Roger Serain (France)	.2809
5. M. Favaron (Italy)	.2841
6. Pete Hammerich (Germany)	.2871
7. Bill Minneman (U.S.A.)	.3032
8. Leo Moreali (Italy)	.3052
9. - Probst (Switzerland)	.3160
10. - Potsch (unknown)	.3183

200 Meters

1. Luigi Casanova (Italy)	.3044
2. Danielle Tincani (Italy)	.3445
3. Roger Serain (France)	.3455
4. Jean-Claude Braconi (France)	.3467
5. - Arenti (unknown)	.3682
6. Toni Negri (Italy)	.3715
7. George Kelbly (U.S.A.)	.3742
8. Fletcher Williams (U.S.A.)	.3751
9. - Falk (unknown)	.4007
10. - Camini (unknown)	.4048

Continued on next page

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INNOCENTS ABROAD

Continued

Grand Aggregate

1. Toni Negri 3081
2. Jean-Claude Braconi 3108
3. Roger Serain 3132
4. Luigi Casanova 3278
5. Danielle Tincani 3346
6. - Pizzoli 3527
7. Bill Minneman 3557
8. - Arenzi 3622
9. Leo Moreali 3679
10. Fletcher Williams 3688

(Note: the Grand Agg scores were compiled by S.G. from Range Agg scores supplied by the organizers.)

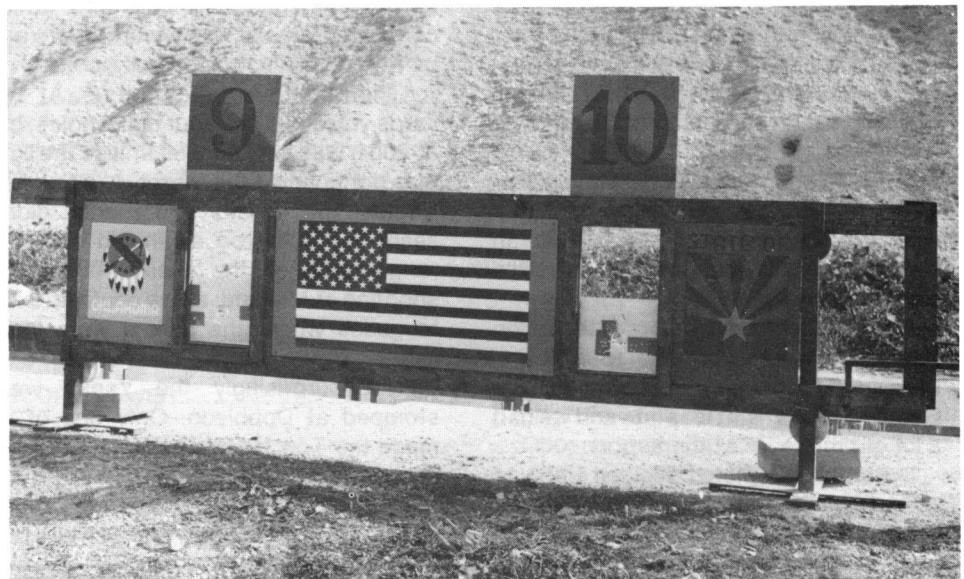
"Toni really did a terrific job of shooting. On Saturday night everyone went to dinner at a very nice restaurant. There were some minor problems with language, but the fellowship of the shooters overcame any difficulties — it was a really good time.

"Sunday, following the presentation of the trophies, we went to Toni's home. I thought I was a trophy hunter, but he puts me to shame. Can't say enough about the hospitality; the Negri family made us feel

Continued on page 30



Toni Negri with trophies and friends.



Target frames at Dobbiaco decorated with U.S. flags.

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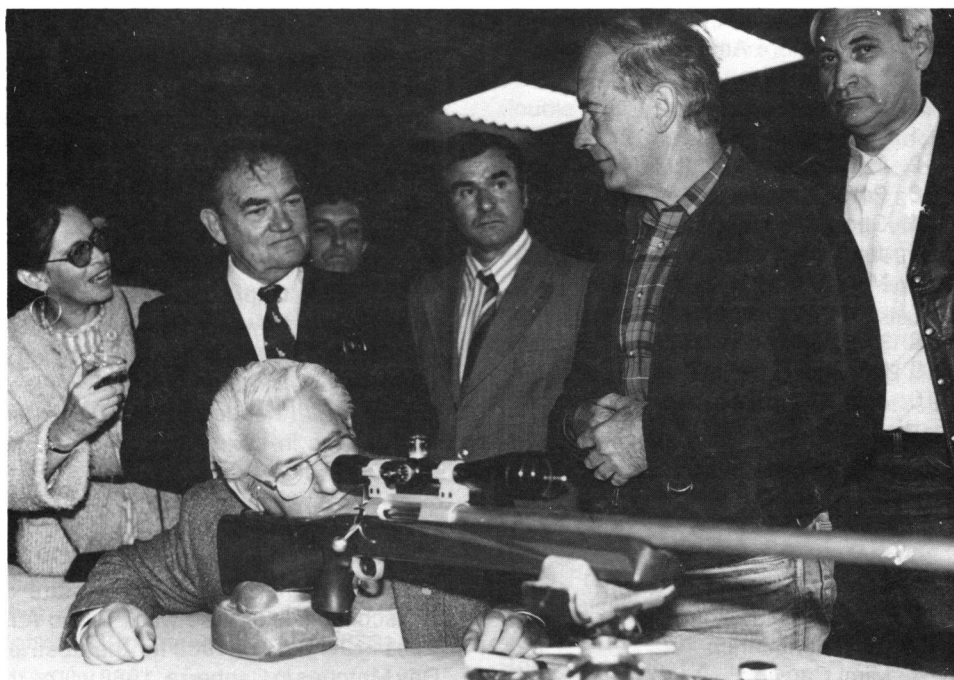
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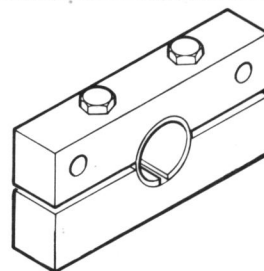
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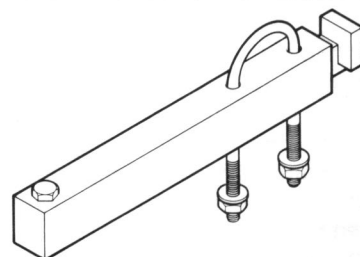
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INNOCENTS ABROAD

Continued

completely at home, and when we went out for dinner we couldn't pay for anything — everyone was wonderful to us.

"Have to mention the trophies at both Dobbiaco and in France — they are really elaborate compared to what we give away here. Toni's Grand Agg trophy would qualify as a monument in the States.

"Monday we went to Venice, did the gondola bit — it was very interesting. Then it was on to Zermatt where it was bright and clear the day we arrived. Went to take pictures the next day and the mountains were buried in clouds."

(Although we may never know the entire truth, S.G. has heard that there seemed to be a bit of difference in opinion as to who was the most competent driver. For instance, Mr. Minneman is convinced that Fletch is a frustrated race car driver given to sudden lane changes and an occasional excursion into tail-gating. On the other hand he has been told that Mr. Minneman will never be branded as a foot dragger for his mountain driving. Mr. Kelbly, assigned the navigator's seat for

the trip, refused to comment. We did learn, however, that George drove from Paris to Frankfurt, and that Bill slept like a baby.)

Souppes-sur-Loing September 27 - 28

"We stayed at the Charles de Gaulle hotel where we met up with our many European friends. The hotel was perfect; we had the best rooms and the restaurant was great. On Friday Mimi Cauvin took us on a tour to Fontainebleau; anyone visiting France should see the palace.

"The range is brand new, this was the first match to be held there. It's built in what we'd call a 'gravel pit'. Things, again, could not have been better — the food was good and the people just swell. The only thing wrong — there should have been more Americans."

200 Meters

1. Bill Minneman (U.S.A.) .2843
2. Fletcher Williams (U.S.A.) .3025
3. Pete Hammerich (Germany) .3204
4. George Kelbly (U.S.A.) .3757
5. Jean Jaques Cristau (France) .3896
6. Mimi Cauvin (France) .4035
7. - Tournu (France) .4037
8. - Estournel (France) .4193
9. Herve du Plessis (France) .4374
10. Jean-Claude Braconi (France) .4474

Match winners were Minneman (.313 & .511), Hammerich (.511 & .376), and Kelbly (.488).

300 Meters

1. Fletcher Williams .3305
2. George Kelby .4403
3. Pete Hammerich .5242
4. Mimi Cauvin .5494
5. Jean-Claude Braconi .6500
6. - Rossel .6690

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8. - Potsch .6924
9. Herve du Plessis .6965
10. Jean Jacques Cristau .7026

Grand Aggregate

1. Fletcher Williams .3165
2. George Kelbly .4080
3. Pete Hammerich .4223
4. Mimi Cauvin .4764
5. Jean Jacques Cristau .5461
6. Jean Claude Braconi .5487
7. Herve du Plessis .5670
8. - Payen .5892
9. - Potsch .6068
10. - Rossel .6330

Match winners were Cauvin (.585), Minneman (.567), Williams (.585), Braconi (1.088) and M. Estournel (.978).

"On Sunday we were graced with the presence of the Mayor of Souppes-sur-Loing and two gentlemen of the Senate. They arrived with champagne for the shooters — very interesting, and very nice.

"The next day we drove to Paris for the day. George has fallen in love with Europe; he didn't want to see too much, said he 'wanted to save Paris for Karen'. Fletcher left us there; he was planning to tour France, and then go on to England. George and I headed back to Frankfurt, with a stop in Luxembourg, for the trip home.

"It was a wonderful time . . . wish you'd been there."

The next major overseas venture on the schedule is a three week trip to Australia in January of 1988 for the Australia Day Matches in Canberra. 1988 will be the Aussie's bi-centennial celebration, and it should be some kind of good time.

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BOOKS: Ultimate in Rifle Precision, Yearbook of the Benchrest Shooters Association, 1949 and 1958 editions (the first and the last of the five issues). \$30.00 each, plus \$1.50 postage. Also several single shot rifle books. Gerald Kelver, 13490 Kennedy, Brighton, Colorado 80601.

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HAROLD BROUGHTON

Continued

I stopped all my experimenting with 30-30 brass when the BR came out. Now, with supergood American-made brass that will really hang in there and perform, I saw no reason to carry on further with wildcats, other than to develop some super hunter class cartridges, and that has already been done with the .30 Aardvark, 7mm - 6mm - and .25 caliber Long Coyotes.

You might be interested in some testing done at the NRA Whittington Center by my wife and myself with the .25 Coyote. We left the Nationals and drove to Raton, and then stayed a week at the Center shooting silhouette targets and then some long range 600 and 1,000 yard work with this BR capacity .30-30 case in .25 caliber.

The bullets, which weighed 88 grains, were made in my Detsch carbide dies, and then loaded in front of 4895 powder. Boy, it took a lot of elevation to get "on" the 1,000 yard targets, but once there the results were pretty amazing to this country boy. With small primers the five shot groups averaged one half minute of angle at that long range. Not so with large prim-

ers. The windage dispersion was about the same as with the small primers, about 4" to 6" wide . . . but the groups would run from 12" to 16" vertical. I am sure, in my own mind anyway, that the small primers were a lot better, even at the 100 and 200 yard ranges, and this long range stuff really proved it. I wasn't able to do all the long range shooting that I wanted to . . . there was a mild mutiny in the target pits . . . my wife to be exact. (Editor: these little details get to even the great ones).

Dave, the Whittington Center is really a beautiful place. We would scout for game early or late in the day, and we would see anywhere from 20 to 50 mule deer. This was the second week of August; the bucks were in velvet, and really a sight to see. Two mornings in a row we saw an elk herd just off the end of the 1,000 yard range with over a hundred head. There were so many that it was impossible to count them accurately. I would get up to a count of about sixty, then they would start milling around, and that was it for accurate counting. If you haven't been fortunate enough to make it yet to visit the Center, you should do so; it would certainly be worth your time.

A note on the new BR brass. It is really soft in the neck area from the anneal, and

it should be taken down from 7mm to 6mm in two stages . . . first, down to .25 caliber, then on down to 6mm. Otherwise the case may collapse at the shoulder unless it is done very easily, and even then you won't get away with all of them. Do it in two stages, and you'll have no problems.

My warmest thanks go out to the whole crew at Remington. I think that they finally did the benchrest people the best service ever.

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May 21 - 24, 1987

SPTR. 5/21 - 5/22

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IBS News

Edited by Dave Brennan

MINUTES OF I.B.S. ANNUAL MEMBERSHIP MEETING January 10, 1987

A social time was held in the Sullivan Room of the Shadowbrook Resort in Tunkhannock, Pa. on January 9, 1987.

After a quorum was determined the Annual Membership Meeting of the International Benchrest Shooters, Inc. was called to order by President Jim Borden at 8:30 a.m. A moment of silence was observed. Jack Deming, Past-President, was appointed to serve as Parliamentarian, using Roberts Rules of Order.

Executive Board of Directors present were: James Borden, President; Dennis Collins, First Vice-President; Paul Ryan; Treasurer; Tony Margelewicz, Executive Secretary; Robert White; Past-President. Twelve clubs were represented: Capitol City R&P, Council Cup Range, Dunham's Bay, Englishtown, Factoryville, South Creek, Sulphyr Springs, Union County, York IWLA, Mainville, 1000 Yard Club, Painted Post and Pine Tree was represented although dues are not current. A total of 72 members were present. New clubs — Baton Rouge, Louisiana and Salisbury, Maryland were welcomed. Proxies were submitted to the Recording Secretary and were counted (27).

Results of the elections for President, First Vice President and Second Vice President were announced. Robert White, Dennis Collins and George Shuckers were elected to these offices for 1987 and 1988. The terms are to begin immediately following the Board of Directors meeting on January 10, 1987. The 1986 Meeting notes were corrected to clarify Junior members as being 15 and under. Motion made by Dan Rassier and seconded by Chuck Pardoe to approve the 1986 Meeting notes as corrected.

Score Shooter of the Year statistics were shared by Bill Creasy. The score shooting registrations increased over 50% over 1985. There were over 1400 aggregates fired at 35 registered shoots. Bill Creasy made the presentation of the Score Shooter of the Year awards to Joe Gilbert of Augusta, Maine. Joe was presented a fiberglass stock from the IBS and Traveling and Keeper plaques.

Marge Masker asked that the meeting attendees give their thanks to the Mainville Sportsmen Club for the efforts that they have put forth to make the Score Shooter of the Year successful.

COMMITTEE REPORTS

RECORDS COMMITTEE— Jim Borden gave the records committee report. John Moulthroup and Lloyd Richards are to be thanked for their many years of faithful service on the Committee. Brian Rubright, Tony Margelewicz and Jim Borden will be the committee for 1987/88. A listing of the records set in 1986 was read. A total of 22 records were set in 1986. Dan Rassier moved that the report of the committee be accepted. Frank Zarnay seconded and the motion was carried.

AWARDS COMMITTEE— Jim Borden reported for the Awards Committee. The following individuals earned the BRONZE Level in the Precision Rifleman Award System in 1986:

Richard Baker
Jim Oliver
Jerry Masker
Jim Borden

The following individuals achieved the Silver Level:

Bob White
Bart Wieder

Gold Level was achieved by Lester Bruno.

Jim Borden also announced that the 1000 Yard Aggregate Champion Award was renewed in 1986. The Traveling Plaque is being engraved for each champion since 1969. Keeper plaques will be awarded for the season aggregate champion beginning in 1986 (Bruce Seiler).

Dave Brennan gave a summary report on the Precision Shooting sponsored Benchrest Shooter of the Year Award. The IBS will have four designated matches plus the double points for the IBS Championships. The Super Shoot will continue as a neutral shoot with double points awarded.

CHAMPIONSHIP COMMITTEE— This committee had two active members in 1986. A new Championship format was used to include Program, Professional Shoot report, Monetary match awards, and many other new additions. The format was successful.

NOMINATING COMMITTEE— Wally Hart thanked the candidates that ran in the election for 1987. Nominations for the NOMINATING COMMITTEE were opened. Bob White nominated Gary Ocock. Gary declined. Nominations were closed. Bob White will appoint members at his earliest convenience.

SCORE COMMITTEE— Randy Fritz gave the report for the committee. Paul Olewine passed away on November 26, 1986 and has been replaced by Gary Long on the Committee. The Score Shooting report is as follows:

The 1986 Score Shooting Season was one of great fulfillment for the Score Shooting Committee. The number of aggs fired, the new people trying score shooting, and the various cartridges that are being experimented with are all very encouraging. However, there are a few areas within the sport that need to be addressed. Scoring is the most important of these issues. There is only one approved method of scoring targets that are questionable; that is the use of the official scoring plugs. If the scorer cannot make a decision, then it is his/her duty to call the referees. They are the final decision makers, that is why they are appointed at every shoot. Match starting times are another concern. A match should, at all costs, begin at the time advertised. If problems occur, change the starting time in your advertisement. A lot of shooters have been shooting more than one gun at a match. We do not want to discourage this, but, if the range will have a hardship added to its match because of multi-gun shooting, the range should have the discretion of limiting competitors to one gun. We would also ask the clubs to get their match results to Bill Creasy quickly. Last

Continued on next page

I.B.S. ANNUAL MEMBERSHIP MEETING

Continued

year several clubs were 3-4 weeks behind in doing this and it is important to be able to keep score shooter of the year up-to-date. With your support we can possibly get our up-dates in Precision Shooting.

May we also make one suggestion, read the official score shooting rule book revised January 1986/87 as this book gives you the complete outline on how to register a match, to run a match, to score a match and general rules concerning score shooting. We have seen, as well as having competitors advise us, that all clubs are not following the rules as stated in the rule book. It is only fair to all concerned (competitors, ranges and the sport) if all clubs operate within the rules. Score Shooter Hall of Fame was discussed at the Score Competitors meeting. A letter has been drafted and forwarded to the executive committee and we are waiting their comments.

Respectively,
Randy Fritz, Chairman
Score Shooting Committee

The Creedmore for Score Shooting was discussed. The Score Shooting Committee reported that the correct method is in the new version of the Rule Book.

Motion to accept the Score Committee report was made by Paul Ryan and seconded by Wally Hart. The motion carried.

VARMINT COMMITTEE— No report. Nominations were made for new committee members. Dan Rassier and Frank Zarnay were nominated. Jerry Masker made a motion to close the nominations for Varmint Committee. The motion was seconded by Dan Rassier. Motion was carried.

HEAVY BENCH COMMITTEE— No Report. Seely Masker and Bob Demonstoy were nominated to be the new HB Committee. A motion was made by Dan Rassier to close the nominations. Seconded by Frank Zarnay. Motion was carried.

POWDER PUFF— Resignations of Joan Borden and Betty Borden were accepted. Bob White will appoint a new Committee prior to the IBS Championships in August.

INTERNATIONAL COMMITTEE— Tony Margelewicz reported that the first European Championships were conducted in Grasse, France on May 1-4, 1986. Tony also noted that the Postal Matches have outlived their usefulness and will be dropped.

RULEBOOK COMMITTEE— Jim Borden reported that the new rulebooks will be printed after the changes made at this meeting are incorporated into the rules.

RECORDING SECRETARY'S REPORT

Jim Borden gave the R.S. report for Joan Borden. Motion was made by Jack Deming to accept the report. A second was made by Brian Rubright. The motion was carried.

Paul Ryan gave the Treasurer's report. A motion was made by Dan Rassier to accept the report. Motion was seconded by Ron Gosciminski and was carried.

There was no old business to come before the Membership Meeting.

Motion made by Tony Margelewicz to recess at 9:50 AM. Second by Erwin Shinkle. Motion was unanimously carried.

Meeting called to order at 10:15 AM by president Jim Borden.

Temporary Rule Changes for 1986 were the first agenda items to be dealt with.

1. Change the definition of Light Varmint Rifles concerning calibers. Restriction is to have Light Varmint Rifles be limited to .230 inch or smaller in groove diameter. All other Light Varmint Rifle definitions to remain as they are defined in Part 1, Section 1, Paragraph B, subparagraph 4 of Rulebook No. 7.

Motion was made by Seely Masker to reject the agenda item. Second by Dan Rassier. Discussion ensued concerning the appropriate action. Second and motion were withdrawn. Seely Masker moved that the item be tabled until the 1988 Membership meeting and that a membership survey be taken by mail in 1987. Motion seconded by Dan Rassier. Motion was defeated. Bob White moved that the rule be extended on a temporary basis for 1987 and be acted on at the 1988 meeting. Motion was seconded by Edna Kraus. Motion was defeated. Carl Lynn moved that the agenda item be moved to the last on the agenda. Motion seconded by Dan Rassier. Motion was carried.

2. IBS Varmint/Heavy Bench Championships are to include 2-Gun (LV/SP), 3-Gun (HV/LV/SP), Four Gun (HB/HV/LV/SP) at 100/200 yards or meters. The program is to run from Monday through Saturday.

Motion made by Dan Rassier to reject agenda item. Second by Bill Brawand. Motion did not carry (19-21). Dan Rassier

made a motion to accept the agenda item. Seconded by Paul Ryan. Motion was not carried. (44-12).

3. If #2 is not ratified, then the IBS Championships are to revert to a 2-Gun (LV/SP) and 3-Gun Championship (HV/LV/SP) to be conducted on days at the discretion of the club conducting the Championship and the Executive Board.

Carl Lynn made a motion to vote on this agenda item at the end of the meeting. Paul Ryan seconded. Motion was carried.

4. Weigh-ins are not mandatory, they are to be held at the discretion of the referees.

Motion to accept by Bob White with a second by Dan Rassier. Motion was carried.

5. Junior members (15 and under) are to be allowed to shoot for half price.

Motion to accept Dan Rassier and seconded by Carl Lynn. Motion was carried.

6. Clubs holding IBS Registered matches are to guarantee the following awards: First through third in each Grand Aggregate, First in each Range Aggregate, Small Group at each yardage, each class. First and second in each Multi-gun.

Motion was made by Dan Rassier to accept the agenda item with an amendment to exclude Score Shooting. Motion was seconded by Bob White. Motion was carried.

7. Competitor firing before the commence fire command shall be disqualified in all classes of competition and voids all of his/her groups/scores fired at the effected tournament.

Motion to accept by Dan Rassier. Second by Bob Hart. Motion was carried.

8. Require IBS, NBRSA, or affiliated Foreign membership to shoot in any IBS registered match.

Motion to accept by Dan Rassier. Second by Edna Kraus. Motion was carried.

1987 AGENDA ITEMS

2. Develop a rotation system for IBS Championships to integrate with the NBRSA Championship schedule. Schedule the location and dates such that both do not occur in the same geographic region or timeframe.

Dan Rassier made a motion to reject. Second by Randy Fritz. Motion was carried to reject the item.

3. Act on the recommendations of the committee established to develop standards for clubs to run championships.

Committee (Wally Hart/Jim Borden) reported that the format tried at the 1986 Championships was successful. The committee recommended that new mem-

bers be added to draft recommendations prior to the 1988 meeting.

Dan Rassier moved that the committee report at the 1988 meeting. Motion seconded by Edna Krauss. Motion was carried. Committee consists of Jim Borden, Wally Hart, Tony Margelewicz, Dan Rassier, Randy Fritz and Bob Demonstoy. Bob White is Ex-Officio Chairperson.

4. Establish the office of Executive Vice President as a paid administrator of the IBS. The standard business of the top 3 officers would be handled by this individual under the guidance of the President.

Motion to accept by Dan Rassier. Second by Edna Krauss. Motion was carried unanimously.

5. In the case where no volunteers are found to run for the office of President, make a provision in the bylaws for the Executive Committee to hire an administrator to manage the Corporation.

Motion to accept by Paul Hart. Second by Dan Rassier. Motion was carried.

Dan Rassier moved that we recess for lunch at 12:15 PM. Seconded by Brian Rubright. Motion was carried.

Meeting was called to order by President Jim Borden at 1:20 PM.

6. Clarify the DNQ rule such that any legal shot fired by a competitor which does not strike his/her target even though it may strike the moving or stationary backer shall not disqualify the effected shooter.

Bill Gebhardt made a motion to accept. Seconded by Edna Krauss. Motion withdrawn by Bill Gebhardt after discussion. Motion made by Dan Rassier and seconded by Paul Hart to reject the agenda item. Motion to reject was carried.

7. Amend the Score Shooting Rules to consolidate the Sporter and Light Varmint Rifles into a single 10½ # class. Purpose of this move would be to limit the meaningless proliferation of score shooting records.

Motion to accept by Bill Creasy. Second by Dan Rassier. Motion was carried.

8. Allow competitors using the same equipment (flags, rests, rifles, etc.) to use the same set of benches on the same or separate relays when bench rotation is used. The intent is to allow families and traveling companions to double up on equipment.

Jack Deming read the NBRSA Board of Directors position on this topic as printed in the December 1986 issue of PS. NBRAS DOES NOT ALLOW THIS AS HAS BEEN REPORTED BY SOME SHOOTERS.

Dan Rassier made a motion to reject

the item. Second by Paul Hart. Motion to reject was carried.

9. Since rotation of benches is mandatory at IBS Championships and preregistration is also mandatory, allow the host club to draw benches for the competitors and assign benches for hardships and shared equipment prior to the match occurring. This will speed-up registration at the match and reduce complications.

The agenda item was amended in a motion as follows:

Since rotation of benches is mandatory at IBS Championships and preregistration is also mandatory, allow the host club to draw benches for competitors and assign benches for physical hardships prior to the match occurring. This will speed-up registration at the match and reduce complications.

Motion to accept by Bill Creasy and second by Dan Rassier. Motion was carried.

10. Any shot on the paper above the centerline between the record and sighter targets, but outside the designated border does not constitute grounds for disqualification. This shot or shots will be measured and an appropriate penalty for each shot will be added to the group. As the rulebook calls for 5 or 10 shot matches, any target not having the required number of shots will automatically be DNQ'd.

Motion to accept by Dan Rassier. Second by Edna Krauss. Motion was carried. Motion was made by Jack Sutton to establish the penalty at 2 MOA. Motion was seconded by Dan Rassier and motion was carried.

11. Clarify the borders for determination of shots outside the border. The accepted practice has been that all shots above the centerline between the record and sighter targets are record shots. All shots below the centerline are considered to be sighters and are not subject to disqualification. Shots close to but, below the centerline will be plugged with the appropriate caliber to determine if they touch the centerline. Any shot touching the centerline will be considered to be above the centerline.

Motion was made to accept with a statement added to clarify the centerline. Added statement: the centerline is defined as a line midway between the bottom border of the record target and the top border of the sighter target. Motion made to accept by Dan Rassier, second by Brian Rubright. Motion was carried.

12. Clarify the preregistration rule to state that money is not required when preregistration is submitted.

Motion to reject item by Edna Krauss. Second by Dan Rassier. Motion to reject

was carried.

13. Limit proxies at Annual Meeting to one per person. Motion to accept by Dan Rassier. Second by Paul Ryan. Motion was carried.

14. Establish proxy voting by mail. All proxies would be submitted to the Recording Secretary in advance of the meeting with votes on each agenda item. Disallow proxies to be held by members.

Motion was made to reject by Dan Rassier. Erwin Shinkle. Motion to reject was carried.

15. Change Junior memberships from 15 & under to 17 & under. Motion to accept by Edna Krauss. Second by Dan Rassier. Motion was carried.

Continued on next page



**INTERNATIONAL
BENCHREST SHOOTERS**

IBS OFFICERS

PRESIDENT

Robert A. White
8 New Jersey Avenue
Lake Hopatcong, NJ 07849
Phone: (201) 879-5662 (shop)
(201) 663-5159 (home)

1st VICE PRESIDENT & MATCH SCHEDULE

Dennis Collins
R.D. #4, Box 374
E. Stroudsburg, Pa. 18301
Phone: (717) 424-8761

2nd VICE PRESIDENT

TREASURER

Paul Ryan
1005 Pheasant Run, R.D. #1
Clarks Summit, Pa. 18411
Phone: (717) 587-4013

SECRETARY

Tony Margelewicz
119 W. Main Street
Nanticoke, Pa. 18634
Phone: (717) 735-1038

PAST PRESIDENT

James F. Borden
R.D. #1 Box 244A
Tunkhannock, Pa. 18657
Phone: (717) 833-2234

RECORDING SECRETARY

Joan Borden
R.D. #1 Box 244A
Tunkhannock, Pa. 18657
Phone: (717) 833-2234

IBS EDITOR

David D. Brennan
37 Burnham Street
East Hartford, Conn. 06108
Phone: (203) 289-8775
Work (203) 643-1157

I.B.S. ANNUAL MEMBERSHIP MEETING

Continued

16. Establish a rule to require all competitors to remain at their benches until the cease fire command is given.

Motion was made to accept by Dan Rassier. Second by Frank Zarnay. Motion was defeated.

17. Recognize the HV/LV two-gun at the 200/300 Yard Championships. Award appropriate points to the beginning of IBS 200/300 yard Championships.

Motion made as follows:

Recognize the HV/10½ # two-gun at the 200/300 Yard Championships starting in 1987. Record to be established by smallest currently available targets that have been verified.

Motion to accept amended version by George Schuckers. Second by Edna Krauss. Motion was carried.

18. Have all official scorers at IBS Score and Group Championships qualified by the appropriate Records Committee. Co-opting to be used to determine the individual's ability to provide consistency in measurement.

Motion made to reject by Brian Rubright. Second by Bob White. Motion was carried.

19. Require targets to be hung for viewing by competitors. Ranges to provide protection of the wailing wall from the elements. This will allow the proper protesting of inappropriate scoring.

Motion made by Dan Rassier as follows:

Require targets to be displayed at Championships for viewing by competitors. Ranges to provide protection of the targets from the elements. This will allow competitors to protest inappropriately scored targets to referees.

Motion seconded by Edna Krauss. Motion was carried.

20. Change the Range Officer Commands to require a very long pause between the "Cease Fire" and the statement "Remove your bolts and Clear the benches".

Motion made to reject by Dan Rassier. Second by Bob White. Motion was carried.

21. Keep the Heavy Bench as part of the Three or Four Gun. Save the HB Gun at all costs.

Agenda item amended as follows:

Keep the Heavy Bench Rifle as part of

the Four Gun Championships, but to be fired at a time prior to the Varmint Championships. Results of the HB Class to be combined with the Three Gun to Establish the Four Gun Champion.

Motion to accept by Bob White. Second by Dan Rassier. Motion was carried.

Returned to Temporary Rule concerning 22 Caliber Restriction on Light Varmint. Dan Rassier made a motion to reject the temporary rule. Second by Frank Zarnay. Motion to reject was carried 37-24.

Motion made by Bob White to revert to a 2-Gun (HV/LV) and 3-Gun (HV/LV/SP) IBS Championship program to be conducted on days at the discretion of the club conducting the match and the Executive Committee. Motion was seconded by Edna Krauss. Motion was carried.

Motion to adjourn the membership meeting was made by Dan Rassier with a second by Frank Zarnay. Motion was carried.

Respectfully Submitted,
Joan Borden
Recording Secretary

1987 IBS AFFILIATED CLUBS

BATON ROUGE RIFLE AND PISTOL CLUB

Jimmie Broussard
11785 Foster Road
Baton Rouge, LA 70811

BRUNSWICK GUN CLUB

P.O. Box 315
Lawrenceville, VA 23868

CAMILLUS SPORTSMEN

Hank Gonnella
420 Hawley Ave.
Syracuse, NY

CAPITOL CITY R & P CLUB

J. O. Gilbert
17 Forest Ave.
Augusta, Maine 04334

CENTRAL JERSEY R & P CLUB

Geza Nagy
436 S. 5th St.
Highland Park, NJ 08904

COUNCIL CUP RIFLE RANGE

Wallace Hart
300 W. 4th St.
Nescopeck, PA 18635

DUNHAM'S BAY FISH AND GAME

Walter Hodges
112 Feeder Street
Hudson Falls, NY 12839

ENGLISHTOWN BENCHREST SHOOTERS ASSOCIATION

BOB WHITE
RD #1 North Road
Chester, NJ 07930

FACTORYVILLE SPORTSMEN

Paul Ryan
1005 Pheasant Run, R.D. #1
Clarks Summit, PA 18411

HOLMESBURG FISH AND GAME

Greg Gillespie
Penny Pack St. & State Road
Philadelphia, PA 19136

JEFFERSON COUNTY - I.W.L.A.

Milt Cook
548 S. Church St.
Charlestown, W. Va. 25414

KELBLY'S RIFLE RANGE

7222 Dalton Fox Lake Road
North Lawrence, Ohio 44666

MAINVILLE SPORTSMEN CLUB

Randy Fritz
RD #3, Box 411
Bloomsburg, PA 17814

NAMAKA BENCHREST SHOOTERS

Al Mirdoch
Box 3070, Stn. B
Calgary, Alberta, Canada

ORIGINAL PA 1000 YARD

BENCHREST CLUB
Box 1413
Williamsport, PA 17703

PAINTED POST FIELD & STREAM

Robert Demonstoy
1 Pioneer Road
Painted Post, NY 14870

PENTICON SHOOTING SPORTS

c/o Ron Johnson
Site 35 Comp 35
RR 3, Penticon
British Columbia V2A 7K8
Canada

PRAIRIE DOG TARGET CLUB

Don Deckert
Porcupine, South Dakota 57772

SALISBURY R&G

P.O. Box 748
Salisbury, MD 21801

SELKIRK BENCHREST CLUB

C/O Ralph Olson
517 Denisit Street
Winnipeg, Manitoba R2J 0N9
Canada

SNOW SHOE GUN CLUB

P.O. Box 125
Kenai, Alaska 99611

SOUTH CREEK ROD & GUN CLUB

Lloyd Richards
411 N. Wilbur Ave.
Sayre, PA 18840

SULPHYR SPRINGS R & P CLUB

Chuck Pardoe
304 South Market Street
Muncy, PA 17756

THURMONT CONSERVATION CLUB

Dick Grosbier
10220 Allview Drive
Frederick, MD 21701

TITUSVILLE SPORTSMEN CLUB

Larry Sheats
521 N. First Street
Titusville, PA 16354

UNION COUNTY SPORTSMEN

Boop's Sporting Goods
RD #2
Mifflinburg, PA 17844

VA CHAPTER #1 I.W.L.A.

T. D. Glazener
Rt 5, 300 Manakin Rd.
Midlothian, VA 23113

YORK I.W.L.A.

Robert Linn
73 Jolo Way
York, PA 17403

INTERNATIONAL AFFILIATED ASSOCIATIONS

B.B.R.S.A.

Neil Jones
48 Stafford Lane
Hednesford, Staffordshire
England

BENCHREST SHOOTERS OF CANADA

Al Mirdoch
P.O. Box 3070, Stn B
Calgary, Alberta
Canada

DBRV

Peter Hammerich
Heimsttenstr-30
8000 Munchen 40 West Germany

IBS FRANCE

Jean Claude Braconi
Rue Du Soliel
Nice 06100 France

SSAA

Ron Marsden
25 Tylagum Ave.
Panania, NSW 2213 Australia

PRESIDENT'S MESSAGE

As I begin my third term as president of IBS I extend my gratitude to all those who supported my candidacy for this office. I intend to give all of the effort required to keep IBS improving, growing and serving its membership in the best manner I am capable of directing.

I extend the sincere gratitude of all involved with IBS to past president Jim Borden. Jim gave of himself and his managerial expertise to maintain and improve IBS. Under his expert guidance our organization has become more efficient at servicing its membership and generally just becoming a better association. We wish Jim a less hectic existence in his semi-retirement from IBS but look forward to his input as past president. With his contribution the success of our shooting organization is practically assured.

In another part of this issue you should be reading about the actions taken by the membership as well as the board of directors of IBS. I am referring of course to the disposition of the business matters at the

annual winter meeting. For those who could not attend may I assure you that your organization functioned as efficiently and democratically as ever in accepting or rejecting proposed changes. Noteworthy were the actions taken to reject the 22 caliber Light Varmint class change, to split the International Championships allowing Heavy Bench and the Varmint classes to be fired on separate dates and locations, and the acceptance of the office of "Executive Vice-President" to handle many of the executive functions of IBS.

As the Hunter Committee pointed out at the winter meeting, attendance at their matches this past season had taken a drastic jump. This indicates to me that our membership is interested in all types of benchrest shooting and particularly "Varmint for Score" of late. IBS has been, and I expect will remain, flexible and ready for progressive change if improvement of the sport is indicated.

It is my firm belief that as individual members we must support our clubs hosting IBS matches. The symbiotic relationship between shooters and clubs dic-

tates that clubs hold a reasonable number of matches in the classes of competition the shooters want. On the other side of the coin, sufficient numbers of our members must attend these matches to assure a reasonable financial return to the club. Your organization must try to match the interests of both clubs and members so both receive satisfaction for their efforts. All competitors must attend matches at all ranges and not pick and choose only those that they like or do well at. I can honestly say that I have never attended a registered shoot in the past 22 years where the host club did not seem to be making every reasonable effort to give the shooters what they wanted. As a shooting sport we need more, not fewer, ranges holding registered shoots and the way to promote this is to attend the ones they hold.

I'm looking forward to renewing friendships and spending quality time with the finest people I've come across in my years, "Benchresters". See ya all this season.

Best regards,
Bob White

DUNHAMS BAY

The Bay hosted 31 heavy varmint class shooters and 8 hunter class shooters on January 4th for the first registered match of the winter league. It was clear and cold, with just a bit of wind movement, and if one could keep one's mind off the cold . . . one could do some pretty decent shooting . . . one could. Mike Mastrianni won the last match of the 1986 season at The Bay, and he took over where he had left off, winning the first 1987 match handily, as well as turning in the first Official Screamer group of the year, a nice .075 target. Top ten, heavy varmint class, 100 meters: 1.) Mike Mastrianni .2074, 2.) Jim Oliver .2414, 3.) Dick Maretzo .2450, 4.) Tom Svack .2468, 5.) Brian Hollister .2690, 6.) Jim Sosluskey .2878, 7.) Tom Peria Sr. .2932, 8.) Ed Goff .2970, 9.) Allen Fagga .2974, 10.) Carl Mennard .3026. Agg winner Mike Mastrianni fired a 6PPC, CPS action, Hart barrel, Leupold 36x scope, 28.0 grains of H322 with Euber 68 grain flat base bullets and Remington 7½ primers, in a rifle smithed by Ed Goff.

In the accompanying 100 yard hunter class shoot: 1.) Seely Masker 248-9x, 2.) Ira Farnsworth 247-11x, 3.) Joe Golba 245-9x, 4.) Edgar Ziliox Jr 242-7x, 5.) Robert Reil 242-5x. Seely shot a 30x44, Remington 700 action, Hart barrel, Weaver T6 scope, 35.5 grains of H322 with Sierra 168 grain bullets and Federal 205 primers, in a rifle smithed by himself.

JOB OPENING

POSITION: EXECUTIVE VICE-PRESIDENT

Abbreviated Job Description

1. Handle correspondence on behalf of president.
2. Arrange for publishing in P.S. those items president specifies.
3. Arrange Annual Meeting details.
4. Handle match scheduling duties of 1st V.P.
5. Execute match contracts between clubs and IBS.
6. Arrange for and order all IBS issued awards.
7. See that all IBS championship matches have appropriate awards on hand during the respective matches.
8. Supply all affiliated clubs with "Range Agg" winner awards.

CONTRACTOR for above services:

International Benchrest Shooters Assn.
C/O Robert A. White
8 New Jersey Ave.
Lake Hopatcong, N.J. 07849

HOURS: These are contracted services for which an annual fee would be paid. Whatever time is required to complete service is assumed.

FEE: Negotiable

Apply in writing to contractor cited above.

1987 TENTATIVE I.B.S. SCORE SHOOTING MATCH SCHEDULE

April 5 — UNION COUNTY SPORTSMEN'S CLUB, Weikert, Pa. - H, VH and Varmint for Score - 100 yds. - 10 am

April 5 — THURMONT CONSERVATION & SPORTSMAN'S CLUB, Frederick, Maryland - H, HV and Varmint for Score - 100 yds. - 11:00 am

April 12 — SULPHYR SPRINGS RIFLE & REVOLVER CLUB, Muncy, Pa. - H, VH and Varmint for Score - 100 yds. - 10 am

April 26 — I.W.L.A., York Pa. - H, VH and Varmint for Score - 100 yds. - 11:00 am

May 3 — MAINVILLE SPORTSMEN'S CLUB, Mainville, Pa. - H, VH and Varmint for Score - 100 yds. - 11 am

May 3 — THURMONT - H, VH and Varmint for Score - 100 yds. - 11 am

May 10 — SULPHYR SPRINGS - H, VH and Varmint for Score - 100 yds. - 10 am

May 17 — YORK - H, VH and Varmint for Score - 100 yds. - 11 am

May 17 — CAPITOL CITY RIFLE & PISTOL CLUB, Augusta, Maine - H, VH and Varmint for Score - 100 yds. - 9 am

May 30 — SULPHYR SPRINGS - Paul Olewine Memorial Match - H, VH and Varmint for Score - 100 yds. - 1:00 pm

May 31 — MAINVILLE - H, VH and Varmint for Score - 100 yds. - 11 am

May 31 — CAPITOL CITY - H, VH and Varmint for Score - 100 yds. - 9 am

June 7 — THURMONT - H, VH and Varmint for Score - 100 yds. - 11 am

June 13-14 — DUNHAM'S BAY FISH & GAME CLUB, Dunham's Bay, Lake George, New York - New York State Hunter (Score) Championship - H, HV and Varmint for Score - 100/200 yds. - June 13 (10 am); June 14 (9 am)

June 21 — CAPITOL CITY - H, VH and Varmint for Score - 100 yds. - 9 am

June 28 — FACTORYVILLE SPORTSMAN'S CLUB, Factoryville, Pa. - H, VH and Varmint for Score - 100 yds. - 11 am

July 4-5 — CAPITOL CITY - Maine State Hunter (Score) Championship - H, VH and Varmint for Score - 100/200 yds.
July 4 - 100 yds - 9 am
July 5 - 200 yds. - 9 am

July 12 — SULPHYR SPRINGS - H, VH and Varmint for Score - 100 yds. - 10 am

July 25-26 — YORK - Pennsylvania State Hunter (Score) Championship - H, VH and Varmint for Score - 100/200 yds.

August 1-2 — MAINVILLE - Pennsylvania State 200/300 Yard Score Championship - H, VH and Varmint for Score
August 1 - 200 yds. - 11 am
August 2 - 300 yds. - 10 am

August 2 — CAPITOL CITY - H, VH and Varmint for Score - 100 yds. - 9 am

August 16 — YORK - H, VH and Varmint for Score - 200 yds. - 11 am

August 23 — CAPITOL CITY - H, VH and Varmint for Score - 100 yds. - 9 am

August 30 — SULPHYR SPRINGS - H, VH and Varmint for Score - 100 yds. - 10 am

September 6 — MAINVILLE - H, VH and Varmint for Score - 100 yds. - 11 am

September 6 — THURMONT - H, VH and Varmint for Score - 300 yds. - 11 am

September 12-13 — UNON COUNTY - I.B.S. Hunter (Score) Championship - 100/200 yds. - H, VH and Varmint for Score - 9 am

September 20 — YORK - H, VH and Varmint for Score - 100 yds. - 11 am

September 27 — FACTORYVILLE - H, VH and Varmint for Score - 100 yds. - 11 am

October 4 — MAINVILLE - H, VH and Varmint for Score - 100 yds. - 11 am

October 4 — THURMONT - H, VH and Varmint for Score - 100 yds. - 11 am

October 11 — SULPHYR SPRINGS - H, VH and Varmint for Score - 100 yds. - 10 am

October 18 — YORK - H, VH and Varmint for Score - 100 yds. - 11 am

October 25 — FACTORYVILLE - H, VH and Varmint for Score - 100 yds. - 11 am

November 1 — MAINVILLE - H, VH and Varmint for Score - 100 yds. - 11 am

1987 TENTATIVE I.B.S. VARMINT MATCH SCHEDULE

March 1 — DUNHAMS BAY. Heavy varmint class, 100 meters, 11:00 am

March 15 — DUNHAMS BAY. Heavy varmint class, 100 meters, 11:00 am

March 29 — DUNHAMS BAY. Heavy varmint class, 100 meters, 11:00 am

April 5 — DUNHAMS BAY. Heavy varmint class, 100 meters, 11:00 am

April 25-26 — UNION COUNTY SPORTSMEN'S CLUB, Weikert, Pa. - Nathan Boop Memorial Match - HV, SP - 100/200 yds. - 9 am

April 26 — DUNHAMS BAY. Heavy varmint class, 100 meters, 11:00 am

May 2 — E.B.S.A., Englishtown, N.J. - NJ State HB Championship - HB(9 am), HV (pm) - 100 yds. only

May 9-10 — PAINTED POST FIELD AND STREAM, Painted Post, N.Y. - New York State Meter Championship - Super Shoot Warm-Up - HV, SP - 100/200 meters - **Designated Match**

May 21-24 — KELBLY'S RIFLE RANGE, Marshville, Ohio - Super Shoot

June 6-7 — COUNCIL CUP RIFLE RANGE, Wapwallopen, Pa. - HV, LV - 100/200 yds. - 8:30 am

June 20-21 — MAINVILLE SPORTSMEN'S CLUB, Mainville, Pa. - I.B.S. 200/300 yd. Championship - LV, HV - 8:30 am - **Designated Match**

July 4-5 — SOUTH CREEK ROD AND GUN CLUB, Fassett, Pa. - HV, LV - 100/200 yds.

July 11-12 — DUNHAM'S BAY FISH & GAME CLUB, Dunham's Bay, Lake George, N.Y. - I.B.S. Heavy Bench Championship - 100/200 yds. - H.B. only - 9 am - **Designated Match**

July 18-19 — UNION COUNTY - Pennsylvania State Varmint Championship - HV, LV - 100/200 yds. - 8:00 am - **Designated Match**

August 8-9 — DUNHAM'S BAY - HB, HV, LV - 100/200 yds. - 9:00 am - I.B.S. Nationals "Warm-Up"

August 19-22 — COUNCIL CUP - I.B.S. National Championship - HV, LV, SP - 100/200 yds. (match details to be publicized) - **DESigned Match**

September 19-20 — PINE TREE RIFLE CLUB, Johnstown, N.Y. - HV, LV - 100/200 yds. - **Designated Match**

September 26-27 — CENTRAL JERSEY RIFLE AND PISTOL CLUB, Jackson, N.J. - New Jersey State Varmint Championship - HV, LV - 100/200 yds. - 8:00 am

October 4 — DUNHAM'S BAY - Memorial Match - HV - 100 meters - 11:00 am; H,VH and Varmint for Score - 100 yds.

1987 I.B.S. HUNTER MATCH SCHEDULE

March 1 — DUNHAMS BAY. Hunter class, 100 yards, 11:00 am

March 15 — DUNHAMS BAY. Hunter class, 100 yards, 11:00 am

March 29 — DUNHAMS BAY. Hunter class, 100 yards, 11:00 am

April 5 — DUNHAMS BAY. Hunter class, 100 yards, 11:00 am

April 26 — DUNHAMS BAY. Hunter class, 100 yards, 11:00 am

INTERNATIONAL BENCHREST SHOOTERS APPLICATION

Name

Address

City State Zip

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- () IBS membership and PS — \$25.00/year
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- () Junior member (no magazine) under age 16 — \$5.00/year
- () Foreign Membership (Overseas)
Surface Mail — \$37.50/year
Air Mail — \$55.00/year
- () Life Membership — \$300.00/year
- () New () Renewal

MAIL MEMBERSHIP TO:

JOAN BORDEN
R.D. #1 Box 244A, Tunkhannock, Pa. 18657
For membership make checks payable to IBS.

PRECISION SHOOTING SUBSCRIPTION

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- () Precision Shooting outside U.S. & Canada — \$22.50 each year, or \$40.00 air-mail
- SUBSCRIPTION CHECKS NOT DRAWN ON AN AMERICAN BANK WILL BE RETURNED
- () New () Renewal

MAIL PRECISION SHOOTING MAGAZINE SUBSCRIPTION TO:

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For subscription ONLY make checks payable to Precision Shooting.

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When giving your address please add your Zip Code number.

SOUTH CREEK

The December 28th winter league match at South Creek. heavy varmint class, 100 yards, top ten: 1.) Frank Obrochta .2732, 2.) Carl Lynn .3066, 3.) Tony Margelewicz .3208, 4.) Walt Malinski .3318, 5.) Bill Theis .3610, 6.) Bob DeMonstoy .3618, 7.) Bob Waechter .3824, 8.) Tony Hopkins .4012, 9.) Charles Pardoe .4344, 10.) Floyd Stohner .4370. Small group was probably the final Official Screamer of 1986, an .060 by Frank Obrochta. In the accompanying score match: 1.) Floyd Stohner 250-12x, 2.) Walt Malinski 249-13x, 3.) Bob DeMonstoy 249-13x.

On January 11th the wind was a-howlin' we can only surmise from looking at the aggs. Top ten, heavy varmint class: 1.) Joe Borden .3958, 2.) Bill Theis .5270, 3.) Floyd Stohner .5470, 4.) Frank Obrochta .5564, 5.) Charles Pardoe .5836, 6.) Don McIlwain .6166, 7.) Wendell Coye .6434, 8.) Guy Green .6456, 9.) Tony Hopkins .8164, 10.) Frank James .9152. Small group was Joe Borden's .170. In the accompanying score match: 1.) Floyd Stohner 249-10x, 2.) Don McIlwain 247-7x, 3.) Charles Pardoe 246-9x, 4.) Guy Green 245-11x, 5.) Joe Borden 249-9x.

SOUTH CREEK

The date was January 25th. For the first good reason for not going to a rifle match . . . it was Super Bowl Sunday. The second good reason (you want another?) was the temperature . . . minus 15° at 7:00 AM. Let's stop right here for a moment, huh? Comes the day when your editor becomes President . . . anybody that goes to a rifle match on such a "two strike" day . . . WILL BE PROMPTLY LOCKED UP . . . IN AN INSANE ASYLUM . . . FOR THE REMAINDER OF THEIR NATURAL DAYS. And anyone holding a match on Super Bowl Sunday will be shot at dawn . . . without benefit of clergy, last words, or a flak vest.

Emotional outbursts aside, top five (12 shooters) were: 1.) Carl Lynn .2842, 2.) Bill Gebhardt .2888, 3.) Charles Pardoe .3700, 4.) Joe Borden .4110, 5.) Bill Theis .4490. Small group, Charles Pardoe .182.

Varmint for score, top three: 1.) Floyd Stohner 249-12x, 2.) Charles Pardoe 247-6x, 3.) Joe Borden 246-12x.

NOTICE: IBS TARGET ORDERING ANNOUNCEMENT

The Executive Board of the International Benchrest Shooters is pleased to announce changes in IBS Target Prices, delivery and ordering arrangements. For many years the IBS has been paying shipping charges from a printer to a distributor plus handling fees at the distributor. This has increased the cost of supplying targets to members and clubs. We have recently negotiated an agreement with Rockwood Corp. (formerly Qualigraphics) of Englewood, New Jersey to print, store, and direct ship IBS targets to anyone desiring them. The new arrangements have allowed the prices of the targets to be reduced significantly. Effective June 1, 1986, anyone desiring to order IBS targets should do so by contacting Rockwood Corp. Anyone ordering targets should indicate that they want IBS targets and the appropriate yardage, style and quantity that they desire. Target prices effective June 1 are:

100 Yard Benchrest (box of 500)	\$23.00
200 Yard Benchrest (box of 500)	\$23.00
300 Yard Red Benchrest (box of 250)	\$37.50
100 Yard Hunter (box of 250)	\$17.00
200 Yard Hunter (box of 250)	\$17.00
300 Yard Red Hunter (box of 250)	\$43.75

All prices are F.O.B. at Englewood, New Jersey. Shipping Charges will be invoiced. Orders are to be made directly through Rockwood Corp at 40 Rockwood Place, Englewood, New Jersey 07631. Phone 201-894-0900.

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NBRSA News

Edited by Dave Brennan

MIDLAND

**RON PRACHYL TAKES HEAVY VARMINT, DAVID MANN TAKES LIGHT VARMINT
AND TWO GUN AT FIRST WEST TEXAS BUFFALO SHOOT**



All the big NBRSA matches during the course of the year have a "name" involved . . . the Nationals . . . the Cactus . . . the Crawfish. Any advertising person will tell you that if you dream big dreams . . . you gotta select a name with pizzazz . . . sex appeal . . . the kind of name that lingers in the memory.

Do we have a new big one starting up? The West Texas Buffalo Shoot, to be exact? In Midland, Texas? (You do remember Midland, don't you? You still haven't got all the sand out of your dentures, you say?)

Midland didn't have the Nationals this year, but it's hard to keep a good man down, particularly in Texas (See "Alamo" in your encyclopedia). With no Nationals to rally around, the Texans began to become bored. Bored Texans start wars, start USFL teams, write threatening and suggestive letters to the PS editor, start designing 6.5mm wildcats, drill oil wells on their patios, divert rivers, and get into all sorts of mischief generally.

Fortunately for the world in general, and the benchrest world in particular,

sometimes Texans can be pointed in the right direction . . . and they will rush off and do something useful, and indeed grand . . . in spite of themselves.

It looks like one of those occasions. The Midland Shooters Association, on October 25th and 26th, hosted the first annual West Texas Buffalo Shoot. Only 29 shooters showed up . . . and the other 73 shooters who stayed away missed a heck of a trophy-give-away-match. I can only judge from the photos that I have with my match report . . . but that Buffalo Trophy looks like the kind of trophy that a shooter might just . . . bear down a tad . . . for. The editor's hat is off to Midland . . . you tried something new . . . you had modest success the first year . . . and you've got a good thing going here. I know that Gary Sandlin and others put a lot of work into this one.

In the light varmint class, at 100 yards, Ron Prachyl dusted off the field . . . and then disappeared from the sight of mortal man at 200 yards . . . but then again . . . most Texans are erratic, even on their best of days. Top five, 100 yards: 1.) Ron

Prachyl .2336, 2.) Jacob Gottfredson .2690, 3.) David Mann .2760, 4.) Speedy Gonzales .2766, 5.) Larry Engelbrecht .2890. Small group was Cecil Tucker's .123. At 200 yards David Mann had found the wind flag to watch, and he dispatched the field from active contention: 1.) David Mann .2963, 2.) Arnold Jewell .3135, 3.) Howard Scott .3361, 4.) Larry Engelbrecht .3402, 5.) Charlie McIntyre .3633. Small group, Arnold Jewell, a nice .224 figure. When grand agg time came, the combination of the 200 yard win, plus the third place finish at the shorter yardage gave David Mann, of Bowie, Texas an open-daylight win: 1.) David Mann .2861, 2.) Howard Scott .3134, 3.) Larry Engelbrecht .3146, 4.) Speedy Gonzalez .3474, 5.) Turk Takand .3584, 6.) Jacob Gottfredson .3589, 7.) Charles McIntyre .3593, 8.) Ron Prachyl .3600, 9.) Arnold Jewell .3602, 10.) Cecil Tucker .3630.

In the heavy varmint class, at 100 yards a Midland shooter, Arnold Jewell took a goodly margin win: 1.) Arnold Jewell .2380, 2.) Harold Henderson .2614, 3.) Harold Broughton .2680, 4.) Ron Prachyl

LV Top 10 Equipment List

Shooter	Caliber	Action	Barrel	Gunsmith	Stocker	Scope	Case	Primer	Load	Bullet
1) David Mann	6 PPC	Hall	HS	Self	Self	LY/SIE 30	Sako	Fed.	27.5 T322	Euber 68
2) Howard Scott	6 PPC	Hart	Shilen	Broughton	Phillips	LY/SIE 30	Sako	Fed.	? H322	Fowler 66
3) L. Engelbrecht	22 Waldog	40X	McMillan	Self	Self	LY/SIE 30	Sako	Fed.	25.4 Ball 1	Own 52
4) Speedy Gonzalez	6 PPC	40X	Hart	Broughton	Self	Leu. 36	Sako	Fed.	28 gr. T322	Own 68
5) Turk Takano	6 PPC	Hall	Shilen	Self	Self/Adams	Leu. 36	Sako	Fed.	27 gr. T322	Berger 68
6) J. Gottfredson	6 PPC	Shilen	Hart	Broughton	Broughton	Leu. 36	Sako	Fed.	52 c. H322	Snow 68
7) C. McIntyre	6 PPC	Shilen	40X	Broughton	?	Leu. 30	Sako	Rem.	? T322	Own 66
8) Ron Prachyl	22 Baddog	Stolle	Shilen	Adams	D. Mann	Leu. Premier	Sako	Fed.	26 gr. H335	Berger 52
9) A. Jewell	6 PPC	Stolle	Shilen	Broughton	Self	Leu. Premier	Sako	Fed.	49½ c. T322	Berger 68
10) Cecil Tucker	22 Waldog	Stolle	Hart	Baggett	Baggett	Leu. 36	Sako	Rem.	23 gr. T322	?

HV Top 10 Equipment List

1) Ron Prachyl	6 PPC	Stolle	Shilen	Adams	G. Gilbreth	Leu. 36	Sako	Fed.	27.5 gr. H322	Berger 68
2) Chas. Huckleba	6 PPC	Hall	?	Broughton	Broughton	Lym. 30	Sako	Fed.	28.5 gr. H322	Wilson 62
3) A. Jewell	6 PPC	Stolle	Shilen	Broughton	Self	Leu. Premier	Sako	Fed.	49.5 c. T322	Berger 68
4) David Mann	22 Waldog	Hall (B)	McMillan	Self	Self	Lym. 25	Sako	Fed.	? T322	Berger 52
5) H. Broughton	.222	Cooper	4 Groove	Broughton	Broughton	Leu. 36	W-W	Rem.	21.5 RL-7	Snow 52
6) Larry Baggett	22 Waldog	Stolle	Shilen	Self	Self	Lym./SIE.	Sako	Fed.	Ball C-1	Self 51
7) Guy Wilson	22 Hot Dog	CPS	Hart	Self	Self	Leu./SIE. 30	Sako	Rem.	27.5 gr. H322	Wilson 52
8) J. Gottfredson	6 PPC	Shilen	Hart	Broughton	Broughton	Leu. 36	Sako	Fed.	52 c. H322	Snow 68
9) Speedy Gonzalez	6 PPC	40X	Hart	Broughton	Self	Leu. 36	Sako	Fed.	28 gr. T322	Self 68
10) K. McIntyre	6 PPC	Stolle	Hart	Dietz	Self	Leu. 36	Sako	Fed.	?	Self 65

.2742, 5.) Kenneth McIntyre .2780. In the small group category, J.D. Pickering, of Tyler, Texas made a real run at an Official Screamer patch . . . and darn near carried it off, with a .103 group. We might make the observation that "in the zeros" groups at Midland are about as common as moose in Time Square. At 200 yards Ron Prachyl . . . winner of light varmint 100 yards, and nowhere at 200 yards . . . returned from "nowhere", apparently having gotten things sorted out a bit: 1.) Ron Prachyl .3098, 2.) Charles Huckleba .3376, 3.) David Mann .3753, 4.) Guy Wilson .3764, 5.) Larry Baggett .3848. Small group was Larry Baggett's .384. At grand agg time once again, the old Midland formula . . . win the 200, and stay close at 100: 1.) Ron Prachyl .2920, 2.) Charles Huckleba .3238, 3.) Arnold Jewell .3246, 4.) David Mann .3271, 5.) Harold Broughton .3443, 6.) Larry Baggett .3471, 7.) Guy Wilson .3504, 8.) Jacob Gottfredson .3665, 9.) Speedy Gonzalez .3726, 10.) K. McIntyre .3780.

When it came time for the awarding of the imposing West Texas Buffalo Shoot two gun trophy, at the four contested yardages had taken one 1st place, two 3rd places, and one 6th place in the standings. That's pretty fair consistency at Midland! Top ten, two gun: 1.) David Mann .3066, 2.) Ron Prachyl .3260, 3.) Arnold Jewell .3424, 4.) Charles Huckleba .3540, 5.) Howard Scott .3593, 6.) Speedy Gonzalez .3600, 7.) Larry Baggett .3621, 8.) Jacob Gottfredson .3627, 9.) Larry Engelbrecht .3667, 10.) Kenneth McIntyre .3724.

CEDAR RAPIDS

A 100 yard match at Cedar Rapids, Iowa on October 12th, with 15 shooters on line. Light varmint class: 1.) Dwight Fitzsimmons .2340, 2.) L. Groothius .2830, 3.) Ed Cabor 4010. Small group, Dwight Fitzsimmons .140. Heavy varmint

class: 1.) Dwight Fitzsimmons .2726, 2.) John Moschkau .2820, 3.) William Leer .3300. Small group, John Moschkau .115. Two gun agg: 1.) Dwight Fitzsimmons .253, 2.) L. Groothius .309, 3.) John Moschkau .346

DESOTA

Eight shooters at the Bruce Hodgdon Range, Desota, Kansas, on July 20th, light varmint class. At 100 yards: 1.) Jim Hemmert .3392, 2.) Jerry Johnson .3596, 3.) Wayne Lynch .4346. At 200 yards: 1.) Wayne Lynch .5099, 2.) Steve Heineman .5777, 3.) Gene Adkins .5800. Grand agg: 1.) Wayne Lynch .4720, 2.) Jerry Johnson .4870, 3.) Steve Heineman .5060. Grand agg winner Wayne Lynch, of Fredonia, Kansas fired a 6PPC, Shilen action, Lilja barrel, Leupold 36x scope, an unspecified amount of T322 powder with Berger 68 grain bullets, in a rifle smithed and stocked by Laco.

ST. LOUIS

June 22nd, and the St. Louis club hosted a 100-200-300 yard hunter match, with 11 shooters in the open class, and 4 shooters firing in a factory class at 100 yards. Let's cover that factory class first: 1.) Roland Poehl 237-3x, 2.) Thomas Hencken 232-0x, 3.) Frank Petruso 202-0x. In the hunter class proper, at 100 yards: 1.) Larry Smart 250-13x, 2.) Wayne Corley 249-13x, 3.) Guy Chism 249-10x. At 200 yards: 1.) Wayne Corley 250-12x, 2.) Charlie Scott 249-5x, 3.) Dan Jarvis 247-5x. Grand agg at this point: 1.) Wayne Corley 499-25x, 2.) Charlie Scott 495-11x, 3.) Dan Jarvis 494-15x. At 300 yards: 1.) Wayne Corley 244-1x, 2.) Charlie Scott 243-1x, 3.) Larry Smart 241-5x. Grand agg for 100-200-300 yards: 1.) Wayne Corley 743-26x, 2.) Charlie Scott 738-12x, 3.) Larry Smart 735-22x, 4.) Dan Jarvis 728-15x, 5.) Gene Adkins 725-22x.

ST. LOUIS

September 13th and 14th at St. Louis, with the unrestricted and the heavy varmint classes being contested. Unrestricted class (13 shooters) 100 yards: 1.) Larry Kuse .2522, 2.) Bud Mundy .2700, 3.) Ron Hoehn .2714. Small group, Larry Kuse .180. At 200 yards: 1.) Bobby Love .3798, 2.) Bud Mundy .3863, 3.) Rich Green .4074. Small group, Larry Scharnhorst .487. Grand agg: 1.) Bud Mundy .3282, 2.) Bobby Love .3304, 3.) Rich Green .3528, 4.) Ron Hoehn .3630, 5.) Larry Scharnhorst .3759.

Heavy varmint class (15 shooters) 100 yards: 1.) Bud Mundy .2018, 2.) Barb Schellert .2312, 3.) Brad Rosenthal .2518. Small group, Barb Schellert .112. At 200 yards: 1.) Bud Mundy .2012, 2.) Charlie Scott .2307, 3.) Bill Schellert .2336. Small group, Charlie Scott .192, an official screamer group. Grand agg: 1.) Bud Mundy .2015, 2.) Barb Schellert .2485, 3.) Brad Rosenthal .2554, 4.) Charlie Scott .2595, 5.) Bill Schellert .2726

No equipment details were provided for this match.

COUNCIL BLUFFS

September 21st, with nine shooters at Council Bluffs, Iowa for a hunter class match. At 100 yards: 1.) Clark Greene 250-15x, 2.) Guy Chism 247-9x, 3.) Bernard Altenburg 245-8x. At 200 yards: 1.) Clark Greene 244-9x, 2.) Guy Chism 235-5x, 3.) Mike Benda 234-9x. Grand Agg: 1.) Clark Greene 494-24x, 2.) Guy Chism 4 -14x, 3.) Mike Prokosch 478-18x. Grand agg winner Clark Greene, of Florissat, Missouri fired a 30X47, Remington 700 action, McMillan barrel, Weaver T6 scope, 39.2 grains of 4895 with GTB bullets in a rifle smithed by Art Freund, and stocked by himself.



NBRSA OFFICERS

Walt Berger, President
4234 N. 63rd Ave. (602) 846-5791
Phoenix, Arizona 85033

George Kelby, Vice President
7222 Dalton Fox Lake Rd. (216) 683-4674
North Lawrence, Ohio 44666

EASTERN REGION

Stan Buchtel, Director
5735 Sherwood Forest Dr. (216) 882-6877
Akron, Ohio 44319

GULF COAST REGION

Marcy Lyons, Director
404 W. 14th St. (318) 783-3396
Crowley, LA 70526

MID-CONTINENT REGION

Dennis Wagner, Director
6821 NW 28 (405) 495-2868
Bethany, Oklahoma 73008

MISSISSIPPI VALLEY REGION

Ron Hoehn, Director
1430 E. Duchsne (314) 837-3846
Florissant, MO 63031

NORTH CENTRAL REGION

Tom Hexum, Director
2275 Atlantic (Apt. #202) (612) 483-5501
St. Paul, Minnesota 55109

NORTHEAST REGION

Lee Euber, Director
RD #1 (802) 388-4280
Middlebury, VT 05753

NORTHWEST REGION

Jim Folwell, Director
16040(A) Tilley Rd. S. (206) 264-4106
Tenino, Washington 98589

SOUTHEASTERN REGION

Larry Earp, Director
1029 Byrum Street (704) 399-1793
Charlotte, No. Carolina 28216

SOUTHWESTERN REGION

Dennis Thornbury, Director
1114 S. McAuliff Road (209) 732-4401
Visalia, CA 93277

SECRETARY-TREASURER

Stella Buchtel
5735 Sherwood Forest Drive (216) 882-6877
Akron, Ohio 44319

RECORDS COMMITTEE

Francis Broussard, Chairman
613 Sidney Drive (318) 332-5638
Breaux Bridge, La. 70517

NBRSA NEWS

David D. Brennan, Editor
37 Burnham Street
East Hartford, Conn. 06108 (203) 289-8775
[work] (203) 643-1157

PRESIDENTS MESSAGE

As I am sure that you are aware, the President's column has been conspicuous by its absence in the past few years. This did not "just happen", there is a reason for it. During the years between the terms of my NBRSA presidencies I had the opportunity to talk with large numbers of shooters. In these conversations over a period of time I took notice of the fact that many members were expressing a common opinion or feeling . . . that it was possible for a few individuals within the organization to influence the direction in which our organization was going . . . and these directions were not always what the membership wanted, nor in their best interests. After considerable reflection on the matter I came to the conclusion that it was indeed possible for the president's office to lead the membership in a direction that HE thought was in the best interest of the organization. I do not believe that this is what the association president should do. Rather I think the office of president should exist to implement the needs and wants of the members through their respective directors. In line with this conviction I determined not to use the association presidency to influence directly or indirectly the membership's views on any given issue.

To date I believe that this has been a right decision. Those problems, if any, that the members felt to exist have been handled through their regional director and at the annual Board of Directors meeting.

Over the past three years, with the help of some very dedicated members (at considerable expense to their time and pocketbooks) we have expanded our efforts and attentions to the European benchrest community. There is no doubt in my mind but that this has led to a greater understanding and a better relationship between the U.S. and our European benchrest partners. In the near future some of these individuals . . . and you are invited . . . will be extending our efforts to Australia. This type of an exchange program will result in a much stronger world-wide benchrest program. And who knows . . . perhaps world championship matches are on the horizon.

I should also be noted that we have extended our efforts and expertise into the International 300 meter free rifle field, and this should be an ongoing program to help upgrade their equipment.

One final thought before I close. If you have not read the minutes of the 1986

Board of Directors meeting in the December issue of PS, you should do so. There was one item that was acted on that might affect you, and that is the assigning of benches. Your directors had received enough complaints on bench assignments that it was determined that other than physical hardship, as the rulebook states, all benches must be drawn. What this means is that the practice of following one another, to use one set of wind flags, will no longer be allowed. This is not a rule change, but rather it instructs host clubs that they must follow the rule for bench assignment that has been in our rule book for many years.

In closing . . . I would ask each of you to work with your director to make your region a strong, viable part of the national organization.

I am looking forward to seeing many of you at the 1987 matches, and I wish all of you the very best in 1987.

Walt Berger

ST. LOUIS

The light varmint and sporter classes Mississippi Valley Regionals, held at the St. Louis range on June 7th and 8th. Light varmint class (19 shooters) 100 yards: 1.) Linc Welser .2408, 2.) Ron Hoehn .2586, 3.) S. Krohn .2892. Small group, Linc Welser .158. At 200 yards: 1.) Ron Hoehn .2819, 2.) S. Krohn .3144, 3.) Barb Schellert .3277. Small group, Ted Phillips .338. Grand agg: 1.) Ron Hoehn .2703, 2.) S. Krohn .3018, 3.) Linc Welser .3119, 4.) Barb Schellert .3198, 5.) Ben Peters .3334.

Sporter class (19 shooters) 100 yards: 1.) Gene Adkins .2518, 2.) S. Krohn .2606, 3.) Larry Smart .2750. Small group, Larry Smart .129. At 200 yards: 1.) Ron Hoehn .2691, 2.) S. Krohn .3087, 3.) Ben Peters .3366. Small group, Bud Mundy .398. Grand agg: 1.) Ron Hoehn .2825, 2.) S. Krohn .2888, 3.) Ben Peters .3086, 4.) Larry Smart .3106, 5.) Barb Schellert .3138.

No equipment details were provided with the match report.

Three shooters with unrestricted class rifles held some sort of a 5 shot match. I note that Bobby Love, at 100 yards, fired groups of .292, .136, .162, .116, and .129 for a .1670 agg, and at 200 yards had groups of .197, .509, .566, .527 and .537 for a .2336 agg, and a .2003 grand agg. Halfway decent shooting!

ST. LOUIS

July 16th and 17th at St. Louis, a sporter class and heavy varmint class match at St. Louis. Sporter class, (17 shooters) 100 yards: 1.) Wayne Corley .2502, 2.) Barb Schellert .2746, 3.) Ben Peters .2762. Small group, Wayne Corley .146. At 200 yards: 1.) Barb Schellert .2249, 2.) Rolf Van Camp .2382, 3.) Larry Scharnhorst .2509. Small group, Rich Griffin .206. Grand agg: 1.) Barb Schellert .2498, 2.) Wayne Corley .2520, 3.) Gene Adkins .2760, 4.) Rich Griffin .2885, 5.) Ron Hoehn .2952.

Heavy varmint class (18 shooters) 100 yards: 1.) Bud Mundy .2054, 2.) Ken Rossing .2250, 3.) Rich Griffin .2468. Small group, Rich Griffin .131. At 200 yards: 1.) Wayne Corley .2957, 2.) Bud Mundy .3077, 3.) Rich Griffin .3350. Small group, Ken Rossing .264. Grand agg: 1.) Bud Mundy .2566, 2.) Rich Griffin .2909, 3.) Ken Rossing .3008, 4.) Wayne Corley .3017, 5.) Charlie Scott .3152

No equipment details were provided for this match.

MASON CITY

August 16th and 17th at the River City Club, Mason City, Iowa. Light varmint class (8 shooters) 100 yards: 1.) Don Judd .2780, 2.) Tom Hexum .2958, 3.) Larry Groothlus .2978. Small group, Don Judd .148. At 200 yards: 1.) Bob Benda .3650, 2.) Don Judd .3863, 3.) Tom Hexum .4072. Small group, Larry Groothlus .350. Grand agg: 1.) Don Judd .3322, 2.) Tom Hexum .3515, 3.) Larry Groothlus .3545. Grand agg winner Don Judd, of New Brighton, Minnesota fired a 6PPC, CPS action, JBC barrel, Leupold 36x scope, 27.5 grains of H322 with his own 68 grain JBC bullets. It is of interest that a hunter class shooter, (Dan Jarvis), who was planning to enter the hunter class match the following day, paid a target fee to fireform his cases for the hunter class. In retrospect . . . he should have entered the match . . . his .2776 100 yard agg would have won it. This with a 6 power scope. The cartridge was a 30HBR.

Hunter class (12 shooters) 100 yards: 1.) Guy Chism 250-15x, 2.) Dan Jarvis 247-10x, 3.) Randy Robinet 247-6x. At 200 yards: 1.) Dan Jarvis 244-5x, 2.) Guy Chism 244-2x, 3.) Bernie Altenburg 240-2x. Grand agg: 1.) Guy Chism 494-17x, 2.) Dan Jarvis 491-15x, 3.) Mike Prokosch 484-12x. Agg winner Guy Chism, of Florissant, Missouri fired a 30HBR, Remington action, McMillan barrel, Leupold 6x scope, 42.5 grains of H4895 with his own 150 grain bullets. This was the first 250 score fired at Mason City.

NBRSA World Records as of January 1, 1987

SINGLE GROUPS	Bench Rest Rifle	Heavy Varmint	Light Varmint	Sporter
5-100	.050" Ed Watson 3/9/85	.027" Ralph Landon 9/13/75	.009" Mac McMillan 9/23/73	.041" Jerry Thornbrugh 10/21/78
5-200	.120" Dennis Thornbury 10/27/85	.108" Earl Case 9/5/76	.109" Stu Harvey 7/10/76	.110" Tom Minder 7/4/81
5-300	.373" Art Freund 7/11/81	.285" Jeff Summers 9/1/84	.415" Linc Welser 7/5/86	.328" Jeff Summers 8/10/86
10-100	.117" Gary Bailey 9/17/83	— — —	— — —	— — —
10-200	.290" Ed Pennebaker 7/6/85	— — —	— — —	— — —
10-300	.536" James Coffey 7/14/84	— — —	— — —	— — —
AGGREGATES				
5-5-100	.1649 L.E. Wilson 5/12/81	.1399 Rex Reneau 9/6/82	.1516 Lester Bruno 7/26/84	.1573 Dick Katchmar 4/14/85
5-5-200	.1695 Bobby Love 10/4/86	.1748 Lowell Frei 2/9/86	.2003 Bob Dodd 6/26/82	.1972 Joe Staples 7/7/84
5-5-300	.1801 Lee Andrews 5/28/83	.2431 Jeff Summers 9/1/84	.2495 James Jarrett 9/4/82	.2262 Jeff Summers 8/10/86
5-10-100	.2175 Art Freund 6/4/78	— — —	— — —	— — —
5-10-200	.2322 Don Geraci 9/5/81	— — —	— — —	— — —
5-10-300	.3305 Ed Watson 7/15/84	— — —	— — —	— — —
GRAND AGGREGATES				
5-5 (100 + 200)	.2017 Bill Haley 8/14/82	.1961 Bub Mundy 9/13/86	.2110 Rex Reneau 6/22/85	.2233 Don Geraci 7/29/82
5-5 (200 + 300)	.2578 Art Freund 7/11/81	.2497 Jeff Summers 9/1/84	.2621 James Jarrett 9/4/82	.2496 Tony Boyer 9/3/83
5-5 (100+200+300)	.2515 Lee Andrews 5/28/83	.2572 Tony Boyer 9/1/84	.2732 James Jarrett 9/4/82	.2425 Tony Boyer 9/3/83
5-10 (100 + 200)	.2556 Gerry Masker 10/13/84	— — —	— — —	— — —
5-10 (200 + 300)	.3567 Ed Watson 7/15/84	— — —	— — —	— — —
5-10 (100+200+300)	.3555 Walt Berger 6/26/82	— — —	— — —	— — —

HUNTER CLASS RECORDS

100 Yards
250-18X
Bob Seymour
8/17/86

100-200 Grand
500-14X
Bob Seymour
4/26/86

200 Yards
250-12X
Wayne Corley
6/22/86

200-300 Grand
494-13X
Wayne Corley
6/22/86

300 Yards
244-1X
Wayne Corley
6/22/86

100-200-300 Grand
743-26X
Wayne Corley
6/22/86

GREENVILLE

Jeff Summers, of Knoxville, put together four top seven finishes, including a 7th, 4th, 3rd and 1st place. To capture the South Carolina 4-gun championship at Greenville on September 6 & 7.

Jim Greenawalt, Yonkers, N.Y., got things started on Saturday morning by posting a .2124 aggregate to pick up the heavy varmint title. Jim used a Hart barreled 6PPC on a Hall action that was both smithed and stocked by himself, and used a Leupold 36 power scope. He loaded 28 grs. H-322 and Hollister 68 gr. bullets in Sako brass and used Federal F-205M primers.

Dick Maretzo, Mahwah, N.J., after leading the way through four matches finished second with a .2146 aggregate.

Ed Watson, of the host club, finished with .2190 for third place.

Jeff Summers grabbed off the unlimited 10-shot championship on Saturday afternoon by firing a .2830 aggregate. Jeff used a 6PPC Hart barreled Wichita action that was Jarrett smithed and self stocked which weighed 20 pounds including the Lyman/Siebert 30 power scope. He used Sako brass and F-205 primers and loaded Fowler 66 gr. bullets over 27 grs. BR-28.

Larry Earp, of Charlotte, with .2874 finished second.

Jim Coffey, Boone, N.C., with .2884 came in third.

Ollie Dodgen, Athens, Ga., jumped out front early Sunday morning and waltzed off with the light varmint crown by firing a .2018 aggregate. Doc's .22 PPC consisted of a Schneider barreled Hall action that was gunsmithed and stocked by Fred Sinclair, and up top was a 36 power Leupold. He used Sako brass and Remington primers, and pushed his own 63 gr. bullets with 28 grs. H-322.

Ed Pennebaker, Greenville, had a .2216 for second place.

Jeff Summers with a .2230 came in third.

Danny Regans, Charlotte, N.C., captured the sporter title by closing out the week-end activities with a fine .2076 aggregate. Danny's equipment was a 6PPC Shilen barreled Stolle action that was gunsmithed by Joines and self stocked. A Leupold 36 power scope was in place on top. He used Sako brass, Federal 205 primers, 28 grs. H-322, and Earp 65 gr. bullets.

Nat Birtchett, Durham, N.C., shot a .2436 for second place.

Jim Greenawalt, New York, was in third place at .2484.

(Reported by Ed Watson)

HEAVY VARMINT (45 entries)

1.	Jim Greenawalt	.2124
2.	Dick Maretzo	.2146
3.	Ed Watson	.2190
4.	Jeff Summers	.2322
5.	Fred Hasecuster	.2484
6.	Larry Earp	.2510
7.	John Schoenlein	.2680
8.	Kenny McRary	.2744
9.	Brian Stockwell	.2766
10.	Jef Fowler	.2780
S.G.	Fred Hasecuster	.116

SPORTER (45 entries)

1.	Danny Regans	.2076
2.	Nat Birtchett	.2436
3.	Jim Greenawalt	.2484
4.	Jef Fowler	.2562
5.	C.R. Davis	.2604
6.	Fred Hasecuster	.2642
7.	Jeff Summers	.2702
8.	Brian Stockwell	.2728
9.	Ed Pennebaker	.2760
10.	Jim Coffey	.2854
S.G.	Fred Hasecuster	.133

UNLIMITED (10-Shot) (42 Entries)

1.	Jeff Summers	.2830
2.	Larry Earp	.2874
3.	Jim Coffey	.2884
4.	Ed Watson	.2936
5.	Nat Birtchett	.3182
6.	C.R. Davis	.3204
7.	Jef Fowler	.3232
8.	Ed Dennebaker	.3260
9.	Ted Manning	.3434
10.	Kenny McRary	.3586
S.G.	Larry Earp	.161

4-GUN

1.	Jeff Summers	.2521
2.	Ed Watson	.2641
3.	Jim Greenawalt	.2742
4.	Jim Coffey	.2779
5.	Jef Fowler	.2853
6.	Dick Maretzo	.2905

LIGHT VARMINT (45 Entries)

1.	Doc Dodgen	.2018
2.	Ed Pennebaker	.2216
3.	Jeff Summers	.2230
4.	Fred Hasecuster	.2258
5.	Jim Coffey	.2368
6.	Harold Morgan	.2394
7.	Ted Manning	.2408
8.	Danny Regans	.2450
9.	Ed Watson	.2530
10.	Dick Maretzo	.2556
S.G.	Fred Hasecuster	.092

COUNCIL BLUFFS

A light varmint-heavy varmint classes match in Iowa on July 12th and 13th, with 12 shooters on the firing line. Light varmint class, 100 yards: 1.) Merlin Hubbard .3502, 2.) R. G. Robinett .3744, 3.) Tom Hexum .3984. At 200 yards: 1.) Merlin Hubbard .3351, 2.) Don Creach .3374, 3.) Tom Hexum .3758. Grand agg: 1.) Merlin Hubbard .3426, 2.) Don Creach .3679, 3.) Tom Hexum .3799. Grand agg winner Merlin Hubbard of Maple Hill, Kansas fired a .22 PPC, Stolle action, Hart barrel, Leupold 36X scope, 26.0 grains of T322 with Berger bullets in a rifle smithed and stocked by George Kelbly. Heavy varmint class, 100 yards: 1.) Tom Hexum .2560, 2.) Marty Gordon .3306, 3.) Don Creach .3440. At 200 yards: 1.) Don Creach .2552, 2.) R. G. Robinett .3003, 3.) John Moschkau .3131. Grand agg: 1.) Tom Hexum .2882, 2.) Don Creach .2996, 3.) Marty Gordon .3279. Grand agg winner Tom Hexum, of Maplewood, Minnesota fired a .22 Hex, sleeved 700 action, Hart barrel, Lyman-Siebert 30X scope, 23.6 grains of BR28 powder with PCBC bullets, in a rifle smithed by Wallace, and stocked by Sinclair.

MEMBERSHIP IN NBRSA

The cost of NBRSA Membership is only \$25.00 including a subscription to PRECISION SHOOTING. Associate Memberships are available only to the spouses and children under 18 of current NBRSA members, cost \$5.00 per year and includes all privileges except receipt of PRECISION SHOOTING. Outside the U.S. and Canada: Surface mail - \$37.50. Air Mail \$55.00

Send your check and application (which need not be on an official form) to Mrs. Stella Buchtel, Secretary NBRSA, 5735 Sherwood Forest Drive, Akron, Ohio 44319.

☐ NEW

☐ RENEWAL

NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

P R/B

L NO. COMPETITOR CALIBER ACTION BARREL GUNSMITH STOCKER SCOPE/POWER R WT. CASE PRIMER POWDER BULLET MFGR.

** HEAVY VARMINT **

1	219 JIM	GREENAWALT	6 PPC	HALL	HART	GREENAWALT	GREENAWALT	LEUPOLD	36	13.5	SAKO F-205M	H-322	HOLLISTER	68
2	119 DR.DICK	MARETZO	6 PPC	HALL	HART	MASKER		LEU/SIEB	30	13.0	SAKO F-205	N-201	EUBER	68
3	108 ED	WATSON	6 PPC	REM XP100	HART	HASECUSTER	JARRETT	LYM/SIEB	30	13-7	SAKO F-205M	T-322	WATSON	68
4	113 JEFF	SUMMERS	6 PPC	HALL	4-GROOVE	BROUGHTON	SUMMERS	LYM/SIEB	30	13-7	SAKO F-205	T-322	FOWLER	66
5	111 FRED	HASECUSTER	6 PPC	REM 40-X	SCHNEIDER	HASECUSTER	HASECUSTER	LYM/SIEB	36	13.2	SAKO F-205	T-322	HASECUSTER	68
6	128 LARRY	EARP	6 PPC	REM 40-X	SCHNEIDER	JOINES	EARP	LEUPOLD	36	13.0	SAKO F-205M	H-322	EARP	65
7	105 JOHN	SCHOENLEIN	6 PPC	REM XP100	HART	SINCLAIR	SINCLAIR	LEUPOLD	36	13.5	SAKO F-205M	H-322		62
8	212 KENNY	McRARY	6 PPC	REM 40-X	McMILLAN	COFFEY	COFFEY	LEUTOLD	36	10.4	SAKO CCI	322	COFFEY	66
9	107 BRIAN	STOCKWELL	6 PPC	REM 700	McMILLAN	McMILLAN	McMILLAN	LYM/SIEB	30	13.5	SAKO F-205	W-748	WATSON	62
10	121 JEF	FOWLER	6 PPC	HALL	SHILEN	BROWBJVON	SINCLAIR	LYM/SIEB	30	10.5	SAKO F-205M	H-322	FOWLER	66

** UNLIMITED **

1	113 JEFF	SUMMERS	6 PPC	WICHITA	HART	JARRETT	SUMMERS	LEU/SIEB	30	20.0	SAKO F-205	BR-28	FOWLER	66
2	128 LARRY	EARP	6 PPC	REM 700	SHILEN	JOINES	JOINES	LEUPOLD	36	45.0	SAKO F-205M	H-322	EARP	65
3	112 JIM	COFFEY	6 PPC	REM XP100	HART	COFFEY	COFFEY	LEU/SIEB	30	60.0	SAKO F-205	N-201	COFFEY	66
4	108 ED	WATSON	6 PPC	HALL	HART	BROUGHTON	BILL HALL	REDFIELD	28	35.0	SAKO F-205M	T-322	WATSON	62
5	120 NAT	BIRTCHETT	6 PPC	REM	HART	BIRTCHETT	BIRTCHETT	LEU/SIEB	30	35.0	SAKO F-205	4198	WATSON	68
6	127 DR.C.R.	DAVIS	6 PPC	REM	HART	JARRETT	SUMMERS	LEUPOLD	36	40.0	SAKO RWS	322	WATSON	62
7	121 JEF	FOWLER	6 PPC	HALL	SHILEN	BROUGHTON	BILL HALL	LEU/SIEB	30		SAKO F-205M	H-322	FOWLER	66
8	130 ED	PENNEBAKER	6 PPC	REM XP100	PYRO-DUX	HASECUSTER	TOOLEY	LEU/SIEB	30	60.0	SAKO CCI	T-322	WATSON	68
9	126 TED	MANNKNG	6 PPC	REM 721	SCHNEIDER	MANNING	MANNING	LEU/SIEB	30	68.0	SAKO F-205	T-322	ART	68
10	212 KENNY	McRARY	6 PPC	REM 40-X	McMILLAN	COFFEY	COFFEY	LEUPOLD	36	10-4	SAKO CCI	322	GOFFEY	66

** LIGHT VARMINT **

1	225 DR.D.M.	DODGEN	6 PPC	HALL	SCHNEIDER	SINCLAIR	SINCLAIR	LEUPOLD	36	10-4	SAKO REM	H-322	DODGEN	63
2	130 ED	PENNEBAKER	6 PPC	REM XP100	PYRO-DUX	HASECUSTER	HASECUSTER	LYM/SIEB	25	10.5	SAKO F-205M	T-322	WATSON	62
3	113 JEFF	SUMMERS	6 PPC	HALL	SHILEN	JARRETT	SINCLAIR	LEUPOLD	36	10-7	SAKO F-205	T-322	FOWLER	66
4	111 FRED	HASECUSTER	6 PPC	HALL	SCHNEIDER	HASECUSTER	HASECUSTER	LEU/PREM	36	10-7	SAKO F-205	T-322	EUBER	68
5	112 JIM	COFFEY	6 PPC	REM 40X	SHILEN	COFFEY	COFFEY	LYM/SIEB	30	10.5	SAKO F-205M	N-201	COFFEY	66
6	106 HAROLD	MORGAN	6 PPC											
7	126 TED	MANNING	6 PPC	REM XP100	McMILLAN	MANNING	MANNING	LEUPOLD	36	10-4	SAKO F-205	T-322	ART	68
8	101 DANNY	REGANS	6 PPC	STOLLE	SHILEN	JOINES	REGANS	LEUPOLD	36	10-4	SAKO F-205	H-322	EARP	65
9	108 ED	WATSON	6 PPC	STOLLE	HART	HASECUSTER	DELASANDRO	LEU/PREM	36	10.5	SAKO F-205M	T-322	WATSON	68
10	119 DR.DICK	MARETZO	6 PPC	SHILEN	HART	MASKER	MASKER	LEUPOLD	36	10.5	SAKO F-205	N-201	EUBER	68

** SPORTER **

1	101 DANNY	REGANS	6 PPC	STOLLE	SHILEN	JOINES	REGANS	LEUPOLD	36	10-4	SAKO F-205	H-322	EARP	65
2	120 NAT	BIRTCHETT	6 PPC	HALL	HART	BIRTCHETT	BIRTCHETT	LEUPOLD	36	10-6	SAKO F-205	H-4198	EARP	65
3	219 JIM	GREENAWALT	6 PPC	TROPHY	HART	GREENAWALT	GREENAWALT	LEUPOLD	36	10.5	SAKO F-205M	H-322	HOLLISTER	68
4	121 JEF	FOWLER	6 PPC	HALL	SHILEN	BROUGHTON	SINCLAIR	LYM/SIEB	30	10.5	SAKO F-205M	H-322	FOWLER	66
5	127 DR.C.R.	DAVIS	6 PPC	REM	McMILLAN	McMILLAN	McMILLAN	LEUPOLD	36	10.5	SAKO RWS	322	WATSON	62
6	111 FRED	HASECUSTER	6 PPC	HALL	SCHNEIDER	HASECUSTER	HASECUSTER	LEU/PREM	36	10-7	SAKO F-205	T-322	EUBER	68
7	113 JEFF	SUMMERS	6 PPC	HALL	SHILEN	JARRETT	SINCLAIR	LEUPOLD	36	10-7	SAKO F-205	T-322	FOWLER	66
8	107 BRIAN	STOCKWELL	6 PPC	REM XP100	McMILLAN	McMILLAN	McMILLAN	LYM/SIEB	30	10.5	SAKO F-205	W-748	WATSON	62
9	130 ED	PENNEBAKER	6 PPC	REM XP100	PYRO-DUX	HASECUSTER	HASECUSTER	LYM/SIEB	25	10.5	SAKO F-205M	T-322	WATSON	62
10	112 JIM	COFFEY	6 PPC	REM 40X	SHILEN	COFFEY	COFFEY	LYM/SIEB	30	10.5	SAKO F-205M	N-201	COFFEY	66

NBRSA MATCH SCHEDULE

EASTERN REGION

WARM-UP MATCHES WILL BE USED AT ALL RANGES EXCEPT LONDON, ONTARIO, CANADA.

CHIPPEWA COUNTY SHOOTING ASSOCIATION, Sault Sainte Marie, Michigan. Contact: Joseph Haller, Rt. 1, Box 117, Nicolet Road, Sault Sainte Marie, MI 49783.

CHIPPEWA RIFLE CLUB, Easton, Ohio. Contact: Nelson Berger, 11374 Mt. Eaton Road, Marshallville, OH 44645. (216) 855-3661.

CRUMLIN SPORTSMEN'S ASSOCIATION. Contact: Trevor McLeod, P.O. Box 4352, Station D, London, Ontario N5W 5J6.

FAIRCHANCE GUN CLUB, Smithfield, Pennsylvania. Contact: Royce Leckemby, Rt. 2, Box 21, Smithfield, PA 15478. (412) 569-7973.

April 11 — 10½# AM 100 yd.
13# PM 200 yd.

April 12 — 13# AM 200 yd.
10½# PM 100 yd.

June 27 — HV 100 yd, UL 100 yd.

June 28 — UL 200 yd, HV 200 yd.

Eastern Regional — All Classes — Ralph Stolle Memorial All Gun

Sept. 5 — Unlimited

Sept. 6 — 10½# & 13# 100 yd.

Sept. 7 — 13# & 10½# 200 yd.

FAIRFIELD SPORTSMAN'S CLUB, Fairfield, Ohio. Jay Fouts, 1191 Dale Road, Hamilton, OH 45013. (513) 892-1715.

June 13 — 10½# - 13# 100 yd.

June 14 — 10½# - 13# 200 yd.

Ohio State Championships — Cline Deer Memorial — Unlimited

Oct. 10 — 13# 100 & 200 yd.

Oct. 11 — UL 100 & 200 yd.

HOLTON GUN AND BOW CLUB, Holton, Michigan. Contact: Theodore Geldaker, Jr., 3369 Waalkes Street, Muskegon Hts., MI 49444. (616) 733-2422.

May 9 — 10½# & HV 100 yd.

May 10 — 10½# & HV 200 yd.

July 4 LV 100 yd., HV 100 yd.

July 5 — LV 200 yd., HV 200 yd.

KANE FISH AND GAME CLUB, Kane, Pennsylvania. Contact: Dick Lockwood, Box 112, Kane, PA 16735. (814) 837-6216.

KELBLY'S RIFLE RANGE, Marshallville, Ohio. Contact: George Kelbly, 7222 Dalton Fox Lake Road, North Lawrence, OH 44666. (216) 683-4674.

May 21-24 — Super Shoot - HV, Sprt.

(Designated Match)

MACKINAC STRAITS SHOOTERS, St. Ignace, Michigan. Contact: Bill Hill, 11 South Boundary Road, St. Ignace, MI 49781.

Aug. 15 — LV & HV

Aug. 16 — LV & HV

MCKINLEY B.R. SHOOTERS, Canton, Ohio. Contact: Harvey LaChat, 12085 Wooster Street, N.W., Massillon, OH 44646.

REED'S RUN RIFLE CLUB, Augusta, Ohio. Contact: Leora Demeter, 1907 Franklin Place, N.W., Canton, OH 44709. (216) 492-7986.

March 28-29 — Heavy Varmint and Light Varmint, 100 and 200 yards.

May 2 — HV AM & UL PM 100 yd.

May 3 — HV AM & UL PM 100 yd.

July 11 — HV AM & UL PM 100 yd.

July 12 — HV AM & UL PM 200 yd.

Oct. 24 — HV AM & UL PM 100 yd.

Oct. 25 — HV AM & UL PM 200 yd.

SHELBY COUNTY DEER HUNTERS ASSOCIATION, Contact: Phil Jones, 414 Summit Avenue, Troy, OH 45373. (513) 339-4833.

Sept. 26 — 10½# & HV 100 yd.

Sept. 27 — 10½# & HV 200 yd.

GULF COAST REGION

AUSTIN RIFLE CLUB, Austin, Texas. Contact: Frank Wilson, 4904 Rollingwood St., Austin, TX 78746.

BATON ROUGE RIFLE & PISTOL CLUB, Baton Rouge, Louisiana. Contact: Jimmie Broussard, 11785 Foster Rd., Baton Rouge, LA 70811. (504) 774-7953.

CENTRAL TEXAS BENCHREST SHOOTERS, INC., New Braunfels, Texas. Contact: George Belcher, 318 Gabe Dr., Kerrville, TX 78028. (512) 367-5658

April 4 — Gulf Coast Region Unlimited

April 5 — Heavy Varmint

June 13 & 14 — Hunter Nationals

Sept. 5 — Texas State Sporter

Sept. 5 — Annual Meeting of Texas Benchrest Association

Spt. 6 — Texas State Light Varmint

COMANCHE SPRINGS RIFLE & PISTOL CLUB, Fort Stockton, Texas. Contact: Charley McIntyre, Box 1413, Fort Stockton, TX 79735.

CORPUS CHRISTI RIFLE & PISTOL CLUB, P.O. Box 7117, Corpus Christi, TX 78415.

HUB CITY RIFLE & PISTOL CLUB, Lafayette, Louisiana. Contact: Louis Langlais, 932 Hugh Wallis Rd., Lafayette, LA 70501. (318) 235-8978.

March 14 — Louisiana State Light Varmint

March 15 — Louisiana State Heavy Varmint

April 12 — Louisiana State Hunter

April 25 — Crawfish Invitational - Light Varmint* & Heavy Varmint - 100 Yards

April 26 — Crawfish Invitational - Light Varmint* & Heavy Varmint - 200 yards

May 24 — Hunter 100 Yards

June 7 — Hunter Grand

July 12 — Hunter 100 Yards

* Gulf Coast Region Light Varmint

MENARD GUN CLUB, Menard, Texas. Contact: Wayne Davis, Box 352, Menard, TX 76859. (915) 396-2539.

MIDLAND SHOOTERS, INC., Midland, Texas. Contact: Gary Sandlin, 1804 N. "I" St., Midland, TX 79705. (915) 684-5128

Oct. 24 — "Buffalo Shoot" - Light Varmint

Oct. 25 — "Buffalo Shoot" - Heavy Varmint

NAVARRO GUN CLUB, P.O. Box 488, Corsicana, TX 75110

ORANGE GUN CLUB, c/o D. L. Broussard, P.O. Box 95, Orangefield, TX 77639.

PEARLAND SPORTSMAN CLUB, P.O. Box 1127, League City, TX 77573.

SAN ANGELO GUN CLUB, San Angelo, Texas. Contact: Eddie Williams, 3226 Palo Duro Dr., San Angelo, TX 76904. (915) 949-0639.

April 26 — Hunter 100 Yards

May 24 — Hunter Grand

June 28 — Hunter 100 Yards

July 19 — Hunter 100 Yards

SEYMOUR GUN CLUB, Seymour, Texas. Contact: Scott Hunter, Jr., 1612 Buchanan St., Wichita Falls, TX 76309. (817) 723-5147.

July 4 — Texas State Heavy Varmint

July 5 — Texas State Unlimited

SOUTHWEST LOUISIANA RIFLE & PISTOL CLUB, Lake Charles, Louisiana. Contact: James Neal, 1203 California St., Lake Charles, LA 70605. (318) 477-6440.

April 5 — Hunter Grand

May 3 — Hunter 100 Yards

June 28 — Hunter 100 Yards

July 19 — Gulf Coast Region Hunter

Aug. 9 — Heavy Varmint

Sept. 13 — Louisiana State Sporter

SHOOTERS SUPPLY CO. & RANGE, Seguin, Texas. Contact: James Tschoepe, 756 Burges St., Seguin, TX 78155. (512) 379-5956.

May 17 — Texas State Hunter

TIGER ISLAND GUN CLUB, P.O. Box 2106, Morgan City, LA 70381.

TOMBALL GUN CLUB, Houston, Texas. Contact: Mike Scheltz, 12710 New Kentucky Rd., Cypress, TX 77429. (713) 469-4082.

May 30 — Gulf Coast Sporter

May 31 — Gulf Coast Heavy Varmint

Oct. 3 — Light Varmint

Oct. 3 — Gulf Coast Region Annual Meeting

Oct. 4 — Heavy Varmint

Note: There will be no warmup matches except for Hunter Rifle Competition. Unless otherwise noted the first match of the day and/or a range or class change will be ten (10) minutes for varmint matches and fifteen (15) minutes for unlimited matches. (New rule change)

MID-CONTINENT REGION

REGION POLICY: UNLESS OTHERWISE NOTED, NO WARMUP MATCHES FOR MID-CONTINENT REGION.

COLORADO BENCHREST SHOOTERS, INC., Morrison, Colorado. Contact: Dan Dowling, 10919 W. 59th Place, Arvada, CO 80004. (303) 422-6884.

May 10 — Hunter

June 14 — Hunter

July 12 — Mid Continent Region Hunter Championships

July 18 — Colorado State Light Varmint Championships

July 19 — Colorado State Sporter Championships

Sept. 26 — Colorado State Heavy Varmint Championships

Sept. 27 — Colorado State 10 shot Unlimited Championships

All matches start at 9:00 a.m.

GOLDEN GUN CLUB, Contact: Ron Best, 8470 West Virginia Ave., Lakewood, Colorado 80226.

KANSAS CITY MILL CREEK RIFLE CLUB, Desota, Kansas. Contact: Larry Kuse, 8112 W. 89th Street, Overland, Park, KS 366212. (913) 649-7344.

OKIE SHOOTERS, Edmond, Oklahoma. Contact: Rex Reneau, 7409 N.W. 28 Terr., Bethany, OK 73008. (405) 787-8529.

SANDHILL RIFLE AND PISTOL CLUB, Great Bend, Kansas. Contact: Steve Ochs, 3023 17th, Great Bend, KS 67530. (316) 792-2245.

SPRINGFIELD RIFLE CLUB, Springfield, Missouri. Contact: Mike Bishop, 409 South Avenue, Springfield, MO 65806. (417) 865-5790.

April 11 — LV Regional Championships 11:00 am, HV in pm, 100 yards

April 12 — HV 9:00 am, LV Regionals in pm, 200 yards

TULSA BENCHREST CLUB, Skiatook, Oklahoma. Contact: Wayne Blacketter, 7811 E. 2nd Street, Tulsa, OK 74112. (918) 835-5195.

WELD COUNTY FISH AND WILDLIFE ASSOCIATION, INC., Greeley, Colorado. Contact: John Ambler, 2025 Sheshire Street, Ft. Collins, CO 80526. (303) 226-5217.

MISSISSIPPI VALLEY REGION

B & R GUN CLUB, Westfield, Indiana. Contact: Bill Gwin, 2302 State Road 38 East, Westfield, IN 46074. (317) 877-3108.

All matches will start at 9:00 a.m. Warm up matches WILL BE fired.

BEESON'S RIFLE RANGE, Etna Green, Indiana. Contact: Jon Leu, 860 US Hwy 30 East, #10, New Haven, IN 46774. (219) 749-9810.

BENCHREST RIFLE CLUB OF ST. LOUIS, St. Louis, Missouri. Contact: Art Freund, 1038 Hornsby Avenue., St. Louis, MO 63147. (314) 388-1352.

Apr. 4 — Heavy Varmint - 2:30 p.m.

Apr. 5 — 10.5 lb. class - 9:00 a.m.

Apr. 12 — Hunter 100 & 200 yd. - 9:00 a.m.

May 2 — Hunter 200-100 yds. - 5:00 p.m.

May 16 — Unr. (5 shot) Miss. Val. Reg. - 2:30 p.m.

May 17 — Heavy Varmint Miss. Val. Reg. - 9:00 a.m.

June 6 — Light Varmint Miss. Val. Reg. (Both 100 yd. Sat.) - 2:30 p.m.

June 7 — Sporter Miss. Val. Reg. (Both 200 yd. Sun.) - 9:00 a.m.

June 28 — Hunter 100-200 yd. - 9:00 a.m.

July 11 — Unr. (5 shot 100-200 yd. Mo. State Champ. - 12:00 p.m.

July 12 — Light Varmint Mo. State Champ. - 9:00 a.m.

July 19 — Hunter 100-200 Miss. Val. Reg. - 9:00 a.m.

Aug. 9 — Hunter 100-200- Mo. State Champ. - 9:00 a.m.

Aug. 15 — 10.5 lb. Sporter Mo. State Champ. - 2:30 p.m.

Aug. 16 — Heavy Varmint Mo. State Champ. - 9:00 a.m.

Sept. 12 — Unr. (10 shot) - 2:30 p.m.

Sept. 13 — Heavy Varmint - 9:00 a.m.

Varmint & Unr. matches will not have warm up matches. There will be a 10 min. time limit on the first match at each yardage. Hunter matches will have warm up matches at 100 yds. warm up.

EGYPTIAN RIFLE AND PISTOL CLUB, Carbondale, Illinois. Contact: Marvin Voss, RR 1, Dedr Lane 15, Carbondale, Illinois 62901.

NORTHEAST REGION

CAMILLUS SPORTSMEN'S CLUB, Camillus, New York. Contact: Hank L. Gonnella Sr., 420 Hawley Avenue, Syracuse, NY 13203. (315) 474-1746.

NORTH CENTRAL REGION

Regional Policy: All clubs will use the 7 minute warm-up unless stated in their schedule.

BUFFALO RIFLE CLUB, Contact: Larry Mosebar, PO Box 384, Story, WY 82842.

CEDAR RAPIDS BENCHREST CLUB, Contact: Ed Kvarda, 2406 Ellis Blvd. NW, Cedar Rapids, IA 52405. (319) 396-0017.

March 22 — LV, HV (100 yards) 9 am

April 12 — LV, HV (100 yards) 9 am

May 10 — LV, HV (100 yards) 9 am

June 21 — LV, HV (100 yards) 9 am

July 26 — LV, HV (100 yards) 9 am

Aug. 16 — LV, HV (100 yards) 9 am

Oct. 11 — LV, HV (100 yards) 9 am

CODY SHOOTING COMPLEX, Contact: John Porter, 29 Spring Road, Cody, WY 82414.

COUNCIL BLUFFS RIFLE AND PISTOL CLUB, Contact: Robert Dodd, 8230 Wilson Drive, Ralston, NE 68127. (402) 331-9529.

MINNETONKA GAME AND FISH CLUB, Contact: Don Judd, 645 20th Ave. NW, New Brighton, MN 55112. (612) 633-6799.

April 25 — Heavy Varmint 9:00 am

April 26 — Hunter 8:30 am

May 16 — Light Varmint 9:00 am

May 17 — Heavy Varmint 8:30 am

June 27 — Light Varmint 9:00 am

June 28 — Heavy Varmint 8:30 am

July 18 — Sporter 9:00 am
 July 19 — Heavy Varmint 8:30 am
 Sept. 19 — Minnesota Light Varmint State Championship 9:00 am
 Sept. 20 — Minnesota Heavy Varmint State Championship 8:30 am

OAK HILLS GUN CLUB, Contact: Jim Bounds, 3802 26 Street, Moline, IL 61265. (309) 762-1732.

PRAIRIE DOG TARGET CLUB, Contact: Don Deckert, RR, Porcupine, SD 57772. (605) 288-1919.

May 30 — North Central Region Unlimited Championship 9:00 am
 May 31 — North Central Region Sporter Championship 8:00 am

July 3 — South Dakota Hunter State Championship (Keith Oller Memorial Match) 12:01 pm
 July 4 — South Dakota Heavy Varmint State Championship 8:00 am **Designated Match**

July 5 — South Dakota Light Varmint State Championship 8:00 am **Designated Match**

Aug. 8 — South Dakota 1-2-300 yard Heavy Varmint State Championship 9:00 am

Aug. 9 — South Dakota 1-2-300 yard Heavy Varmint State Championship 8:00 am

Sept. 5 — North Central Region Heavy Varmint Championship 9:00 am

Sept. 6 — North Central Region Light Varmint Championship 8:00 am

Sept. 7 — North Central Region Hunter Championship (Lloyd Deckert Memorial Match) 8:00 am

RIVER CITY RIFLE AND PISTOL CLUB, Contact: Terry Meyer, RR1, Box 50, Thornton, IA 50479. (515) 998-2860.

June 6 — Iowa State Light Varmint Championship 9:00 am
 June 7 — Iowa State Heavy Varmint Championship 9:00 am

Aug. 15 — Iowa State Sporter Championship 9:00 am
 Aug. 16 — North Central Iowa Hunter Championship 9:00 am

WILTON RIFLE CLUB, Contact: Dennis Shepard, 12 Debbie Ave., Muscatine, IA 52761. (319) 264-3909.

NORTHWEST REGION

ENTIAT BENCH REST CLUB, #2 Canyon, Wenatchee, Washington. Contact: Ted Whitehall, Box 5694, Dinkleman Canyon Road, Entiat, WA 98222. All matches start at 8:00 am.

April 4 — Hunter class 300 yards
 April 5 — Hunter class 100-200 yards
 May 9 — Hunter class 300 yards

May 10 — Hunter class 100-200 yards
 June 6 — Hunter class 300 yards
 June 7 — Hunter class 100-200 yards

July 25 — Wash. State Hunter Championships, 300 yards
 July 26 — Wash. State Hunter Championships, 100-200 yards

LaGRANDE RIFLE AND PISTOL CLUB, LaGrande, Oregon. Contact: Greg Vergari, Rt. #4, Box 4411, LaGrande, Oregon 97850. (503) 963-0529.

May 23 — 100 yard hunter class
 May 24 — 100 yard hunter class

NAMAKA BENCHREST SHOOTERS CLUB, Calgary, Alberta, Canada. Contact: Al Mirdoch, Box 3070, Station B, Calgary, Alberta, Canada T2M-4L6. (403) 242-5679.

PRICKLY PEAR SPORTSMEN'S ASSOCIATION, Helena, Montana. Contact: Lee Andrews, 401 S. California St., Helena Montana 59604. (406) 442-9813.

PUGET SOUND BENCHREST RIFLE CLUB, Issaquah, Washington. Contact: John Alexander, P.O. Box 309, Randle, Washington 98377. (206) 672-2435. All matches start at 9:00 am.

April 25 — Hunter class 100-200 yds.
 April 26 — Hunter class 300 yds.

May 2 — Unlimited 10 shot 100-200 yds. Washington State Champ.

May 3 — Unlimited 10 shot 300 yds.
 May 23 — Light Varmint, Heavy Varmint or Unlimited 100 yds.
 May 24 — Light Varmint, Heavy Varmint or Unlimited 200 yds.
 May 25 — Light Varmint, Heavy Varmint or Unlimited 300 yds.

June 20 — Sporter and Heavy Varmint 100 yds.
 June 21 — Sporter and Heavy Varmint 200 yds.
 July 11 — Unlimited 100-200 yds. Northwest Regional

July 12 — Unlimited 300 yds.
 Aug. 15 — Hunter class 100-200 yds. Northwest Regional
 Aug. 16 — Light Varmint 100-200 yds.

Sept. 5 — Heavy Varmint 100-200 yds. Washington State Champ.

Sept. 6 — Light Varmint 100-200 yds. Washington State Champ. 3 Gun.

Sept. 7 — Sporter 100-200 yds. Washington State Champ. 3 Gun

Sept. 26 — Unlimited 100-200 yds. 10 shot Sam Wilson Memorial Match

Sept. 27 — Unlimited 300 yds. 10 shot Sam Wilson Memorial Match

SNOW SHOE GUN CLUB, Kenai, Alaska. Contact: Steve Meyer, P.O. Box 125, Kenai, Alaska 99611.

TRI-COUNTY GUN CLUB, Sherwood, Oregon. Contact: Bob Scheible, 23790 S. Beattie Road, Oregon City, Oregon 97045. (503) 632-4673. Warm Up Matches will be fired in all events. Sign Up at 8:30 a.m. Shoot at 9:00 a.m.

May 17 — HV - Oregon State Championships 100 & 200 yds.

PRECISION SHOOTING — MARCH, 1987

June 14 — LV - Oregon State Championships 100 & 200 yds.
 July 18 — HV N.W. Regional Championships 100 & 200 yds.

July 19 — Sporter N.W. Regional Championships 100 & 200 yds.

Aug. 8 — HV - NBRSA Hunter Rules for Score 100 & 200 yds.
 Aug. 9 — NBRSA Hunter Rifle, Oregon Champ 100 & 200 yds.

WESTERN MONTANA FISH AND GAME ASSOCIATION, Missoula, Montana. Contact: Bill Cote, 3314 Paxson, Missoula, Montana 59801. (406) 549-4719. All matches start at 9:00 a.m., Registration at 8:30 a.m.

April 5 — Hunter class 100-200 yds.
 May 3 — Hunter class 100-200 yds.

June 7 — Hunter class 100-200 yds.
 July 5 — Hunter class 300 yds.

Aug. 1 — Hunter class 100-200 yds. Montana State Champ.

Aug. 2 — Hunter class 300 yds.

SOUTHEASTERN REGION

3 MINUTE SIGHT-IN PERIOD AT ALL MATCHES / EVERY-ONE "ON PAPER" BEFORE RECORD TARGET IS FIRED!

ALLEGHANY COUNTY RIFLE ASSOC., Sparta, North Carolina. Contact: Charles Joines, Box 306, Sparta, N.C. 28675. (919) 372-4847.

July 11 — HV, LV - 100 yards

BRUNSWICK GUN CLUB, Lawrenceville, Virginia. Contact: John King, 111 Brook Ave., South Hill, Va. 23970.

May 30-31 — Va. State Championships HV-LV 100/200
 Sept. 26-27 — Va. State Championships SP-UL 100/200

BUCCANEER GUN CLUB, Wilmington, North Carolina. Contact: Don Sloop, 3306 Bragg Dr., Wilmington, N.C. 28403. (919) 799-4627.

March 28-29 — N.C. State Championships - HV, LV, UL - 100 yards

Nov. 7-8 — Shrimp Fest. - HV, LV, UL - 100 yards

CENTRAL FLORIDA BENCHREST CLUB, Melbourne, Florida. Contact: James Hare, 5700 Palm Drive, Ft. Pierce, FL 33702. (305) 465-8782.

FAYETTE COUNTY GUN CLUB, Fayette, Alabama. Contact: Charles Lahay, 131-14th Ct. N.W., Fayette, AL 35555. (205) 932-3684.

Oct. 10-11 — Alabama State Championships - HV, LV - 100 and 200 yards

GALLATIN GUN CLUB, Gallatin, Tennessee. Contact: Murray Anderson, 1109 57th Ave. N., Nashville, TN 37209. (615) 383-7529.

June 27-28 — SE Regional Championships - LV, UL - 100 and 200 yards

August 22-23 — HV, LV, SP, UL - 200 yards only

GREENVILLE GUN CLUB, Greenville, South Carolina. Contact: Skip Peden, Route #8, Box 187, Piedmont, South Carolina 29673. (803) 845-7065.

April 11-12 — HV, LV, SP, UL - 100 yards only
 Sept. 12-13 — S.C. State Championships - HV, LV, SP, UL - 100 yards

IZAIAK WALTON BENCHREST CLUB, Midlothian, Virginia. Rt. 5, 300 Manakin Road, Midlothian, Va. 23113.

KETTLEFOOT ROD & GUN CLUB, Bristol, Tennessee. Contact: Claude Smith, 96 Cox Road, Bristol, TN. 24201. (703) 669-6594.

May 2-3 — Tenn. State Championships - HV, LV, SP, UL - 200 yards only

Oct. 24-25 — Tenn. State Championships - HV, LV, SP, UL - 100 yards only

LONG CREEK RIFLE & PISTOL CLUB, Charlotte, North Carolina. Contact: Larry Earp, 1029 Byrum St., Charlotte, N.C. 28216. (704) 399-1793.

May 16-17 S.E. Regional Championships - HV, SP 100/200 yards

July 27-Aug. 2 — **NBRSA NATIONALS - HV, LV, SP, UL 100/200 yards**

Dec. 5-6 — Regional Meeting

MEMPHIS R & R ASSOC. INC., Memphis, Tennessee. Contact: George M. Busby, 3887 St. Elmo, Memphis, TN. 38128. (901) 372-1728.

MID-CAROLINA RIFLE CLUB, Columbia, South Carolina. Contact: Jerry Shelton, 217 Cedar Vale Rd., Lexington, S.C. 29072. (803) 356-3047.

March 14-15 — HV, LV, SP, UL 100 yards only

CORRECTION
 Nov. 21-22 — UL (5 shot), UL (10 shot) 100 yards only

RIVER BEND GUN CLUB, Norcross, Georgia. Contact: Joe Carlisle, 31 Gwinnett Dr./Apt. 5, Lawrenceville, Ga. 30245. (404) 962-4687.

ROANOKE R & R CLUB, Roanoke, Virginia. Contact: Ted Manning, R.D. 4, Box 416B, Salem, Va. 24153. (703) 362-8046.

TWIN CITY R & P CLUB, Roanoke Rapids, North Carolina. 236 Old Farm Road, Roanoke Rapids, N.C. 27870.

VOLUNTEER RIFLE & PISTOL CLUB, Knoxville, Tennessee. Contact: Nick Young, P.O. Box 31059, Knoxville, TN. 37930.

WATAUGA GUN CLUB, Boone, North Carolina. Contact: Larry Isenhour, Rt. 1, Box 284A, Zionville, N.C. 28698. (704) 297-3963.

June 13-14 — SE Regional Championships (300 yards) HV, LV, SP, UL

Aug. 8-9 — HV, LV, SP, UL 200 yards only

WYOMING ANTELOPE CLUB, Pinellas Park, Florida. Contact: John Jessip, 10900 Roosevelt Blvd., No., St. Petersburg, FL. 33702. (813) 576-6675.

SOUTHWEST REGION

ARIZONA BENCHREST SHOOTERS, Phoenix, Arizona. Contact: Nancy Miller, 7221 W. Angela, Peoria, Arizona 85345. (602) 979-5764.

March 7 — Cactus Classic - HV, LV 100 yards **Designated Match**

March 8 — Cactus Classic - HV, LV 200 yards **Designated Match**

April 4 — SW Regional - UL (10 shot)
 April 5 — Ariz. State UL (10 shot)

Nov. 7 — LV
 Nov. 8 — HV

First match of each day or yardage change will have 3 minutes added to it instead of a warm up match.

CALIFORNIA BENCHREST SHOOTERS ASSOCIATION, Visalia, California. Contact: Dennis Thornbury, 1114 S. McAuliff Road, Visalia, CA 93277. (209) 732-4401.

March 28 — Calif. State UL (10 shot) Championships
 March 29 — Calif. State SP Championships

May 2 — SP
 May 3 — HV

June 13 — Calif. State LV
 June 14 — Calif. State HV

July 11 — SP
 July 12 — HV

Sept. 5 — SW Regional Championships SP
 Sept. 6 — SW Regional Championships LV

Sept. 7 — SW Regional Championships HV
 Oct. 24 — UL (5 shot) 100/200

Oct. 25 — UL (10 shot) 200/100

Bench rotation will be in effect at all matches in Visalia. Rotation will be made at the change of yardage or change of class.

All matches other than State or Regional Championships will be shot at 100 & 200 yds. on Saturday and 200 & 100 yds. on Sunday. State and Regional Championships will be shot at 100 & 200 yds. each day.

CARSON RIFLE AND PISTOL CLUB, Carson City, Nevada. Contact: Dick Cundiff, 2549 Sneddon Way, Carson City, Nevada 89701. (702) 882-9115.

DESERT SPORTSMAN'S RIFLE AND PISTOL CLUB, Las Vegas, Nevada. Contact: Alan Ashby, 605 Salem Drive, Las Vegas, Nevada 89107. (702) 870-1701.

SOUTHERN UTAH BENCHREST ASSOCIATION, St. George, Utah. Contact: Rick Adams, 24 E. 750 South Street, St. George, Utah 84770.

INTERNATIONAL

A.F.T.B.R. Contact: Jean Jacques Cristau, 13 Rue Des Bleuets, 78650 Beynes, France.

BENCH REST DOLOMITI, Contact: Toni Negri, Via Alemagna, 1, 39034 Dobbiaco (BZ), Italy.

B.B.R.S.A. Contact: Neil Jones, 48 Stafford Lane, Hednesford, Staffordshire, England.

DBRV. Contact: Peter Hammerich, Heimsttenstr-30, 8000 Munchen 40 West Germany.

CEDAR RAPIDS

A pair of 100 yard matches at the Cedar Rapids Range on August 17th, with seven shooters on hand. Light varmint class: 1.) W. Leer .3080, 2.) Ed Cabor .3172, 3.) Dwight Fitzsimmons .3264. Small group was Ed Cabor's .218. Heavy varmint class: 1.) Dwight Fitzsimmons .2418, 2.) Ed Cabor .2742, 3.) Ed Kvarda .3222. The two gun award was taken by Dwight Fitzsimmons, with a .2841 figure. Dwight shot a 6 PPC, some sort of an action, with a Hart barrel, Leupold 36X scope, 27.5 grains of H322 with 68 grain GCBC bullets, in a rifle smithed by Simisoh, and stocked by Sinclair.

CHARLOTTE

The Southeastern regionals for the unlimited class and the sporter classes were hosted by the Long Creek Club at Charlotte, North Carolina on October 11th and 2th, with 40 shooters on hand. Unlimited class, 100 yards: 1.) Steve Gibbons .2778, 2.) Nat Britchett .2818, 3.) C.R. Davis .2870, 4.) Jef Fowler .2900, 5.) Ed Pennebaker .2908. Small group, Shirley Fowler .175. At 200 yards: 1.) Bill Hall .4458, 2.) Ed Pennebaker .4489, 3.) C.R. Davis .4498, 4.) Jef Fowler .4709, 5.) Tom Van Landingham .4763. Small group, Larry Earp .468. Grand Agg: 1.) C.R. Davis .3684, 2.) Ed Pennebaker .3699, 3.) Bill Hall .3684, 4.) Jef Fowler .4709, 5.) Steve Gibbons .3969, 6.) Tom Van Landingham .4042. Grand agg winner C.R. Davis of Durham, North Carolina fired a 6PPC, Remington 700 action, Hart barrel, Leupold 36x scope, 28.0 grains of H322 with Watson 62.5 grain bullets, in a rifle smithed by Kenny Jarrett, and stocked by Jeff Summers.

Sporter class, 100 yards: 1.) Charles Joines .2536, 2.) C.R. Davis .2556, 3.) Ted Manning .2774, 4.) Jef Fowler .2808, 5.) Dave Tooley .2876. Small group was an Official Screamer .076 by Jerry McFall. At 200 yards: 1.) Ed Pennebaker .4021, 2.) Ed Watson .4063, 3.) Steve Gibbons .4297, 4.) James Messer .4300, 5.) Dave Tooley .4421. Small group, Ed Pennebaker .385. Grand agg: 1.) Ed Watson .3521, 2.) Ed Pennebaker .3537, 3.) John Davidson .3632, 4.) Ted Manning .3649, 5.) Jef Fowler .3660, 6.) James Messer .3676. Grand agg winner Ed Watson, of Greenville, So. Carolina fired a 6PPC, sleeved XP-100 with a Shilen 4 groove barrel, Lyman-Siebert 30x scope, 27.5 grains of T322 with Watson 68 grain bullets, in a rifle smithed by Harold Broughton, and stocked by Kenny Jarrett.

Two gun aggs: 1.) Ed Pennebaker .3618, 2.) Jef Fowler .3733, 3.) Ed Watson .3862, 4.) Ted Manning .3873, 5.) C.R. Davis .3885, 6.) Dave Tooley .3947, 7.) Steve Gibbons .3959, 8.) Tom Van Landingham .3965, 9.) Harry Morgan .4185, 10.) John Davidson .4190.

LAFAYETTE

Nineteen hunter class shooters at Lafayette, Louisiana for the last hunter class match of 1986 on September 14th. Although much of the area's economy is closely tied to the oil industry, and the fact that many of the Louisiana hunter class shooters have, from a financial viewpoint, had a bit of a struggle in 1986, the Cajuns hung tough in a difficult period, and my hat is off to them. My personal suspicion is that with a few new barrels under Cajun Christmas trees, they'll be as tough as ever in 1987. They were displaced from their position as perennial champion of the TCL, and that probably has got them mad. Top five, at the match's 100 yard distance: 1.) Gary Vincent 250-11x, 2.) Weldon Laviolette 249-9x, 3.) T. Smith 248-9x, 4.) Ikey Smith 247-8x, 5.) Mike Guillot 246-8x. Agg winner Gary Vincent shot a 6HLS, Remington 700 action, Wiseman barrel, Leupold scope, 34.1 grains of H4895 with Euber 68 grain bullets, in a rifle smithed and stocked by Bob Brackney.

NEW NBRSA RECORD

Francis Broussard, chairman of the measuring committee, tells me the final 1986 season record to become officially accepted . . .

BOBBY LOVE, of Jefferson City, Missouri, on October 4, 1986, at the Mill Creek Rifle Club, in Kansas City fired an impressive .1695 200 yard aggregate in the unlimited (5 shot) class. This wiped out the .1873 figure of Art Freund dating back to 1982. Mr. Love fired a .22 Waldog, Remington action, Hart barrel, Leupold 24x scope, 25.2 grains of T322 with Berger 52 grain flat base bullets and Federal primers, in a rifle smithed by Larry Smart.

NBRSA Rule Books are now available. Send \$2.50 to Stella Buchtel, 5735 Sherwood Forest Drive, Akron, Ohio 44319.

ISSAQUAH

Issaquah, Washington was the place to be on September 27th and 28th if you liked the "big gun". They hosted the White Cane match as well as the L.E. Wilson memorial match for the unrestricted class on the same weekend.

The White Cane match is for unrestricted class, mechanical rests only. After the sight in, all scopes must be capped, and they stay that way throughout. It is no place to be unless you have a lot of confidence in your mechanical rest setup! Bill Crosby won the match for the fourth time! This year there were seven shooters for the 200 yard-300 yard match. At 200 yards: 1.) Bill Crosby .3219, 2.) Jim Folwell .4124, 3.) O.L. Vosburgh .4211. Small group, Jim Folwell .417. At 100 yards: 1.) Bill Crosby .4915, 2.) Jim Folwell .6607, 3.) Steve Kostanich .6781. Small group, O.L. Vosburgh .877. Grand agg: 1.) Bill Crosby .4067, 2.) Jim Folwell .5366, 3.) O.L. Vosburgh .5896. Grand agg winner Bill Crosby of Edmonds, Washington fired a 6x47, Weber action, unknown barrel, Leupold 36x scope, 30.0 grains of H335 powder with Simonson 71 grain bullets, in a rig smithed and stocked by himself.

In the L.E. Wilson Memorial match (unrestricted class, 10 shot), with 11 shooters on line, at 100 yards: 1.) Jim Folwell .2174 (note that the Folwell 100 yard agg, as range measured, would break the NBRSA record by .0001 if it were to stand up to Record Committee measurement. The groups involved measured .167, .185, .150, .325 and .260), 2.) Lowell Boyd .2488, 3.) Bill Crosby .2640. Small group was Jim Folwell's .150. At 200 yards: 1.) Jim Folwell .3067, 2.) Larry Ottmann .3424, 3.) Bill Crosby .3763. Small group, Bill Crosby .456. Grand agg: 1.) Jim Folwell .2621, 2.) Bill Crosby .3202, 3.) Steve Kostanich .3299.

Grand agg winner Jim Folwell of Tenino, Washington fired a 6PPC, Weber action, Shilen barrel, Leupold-Siebert 36x scope, 27.0 grains of T322 with Simonson 68 grain bullets, in a rifle smithed by Manley Oakley, and stocked by Ed Shilen.